

Basic Analog Grammar

Sample Dictionary

Absolute Logical Operators

John Clark



John 312

BAM—Absolute Logical Operators

Sunday, September 6, 2020

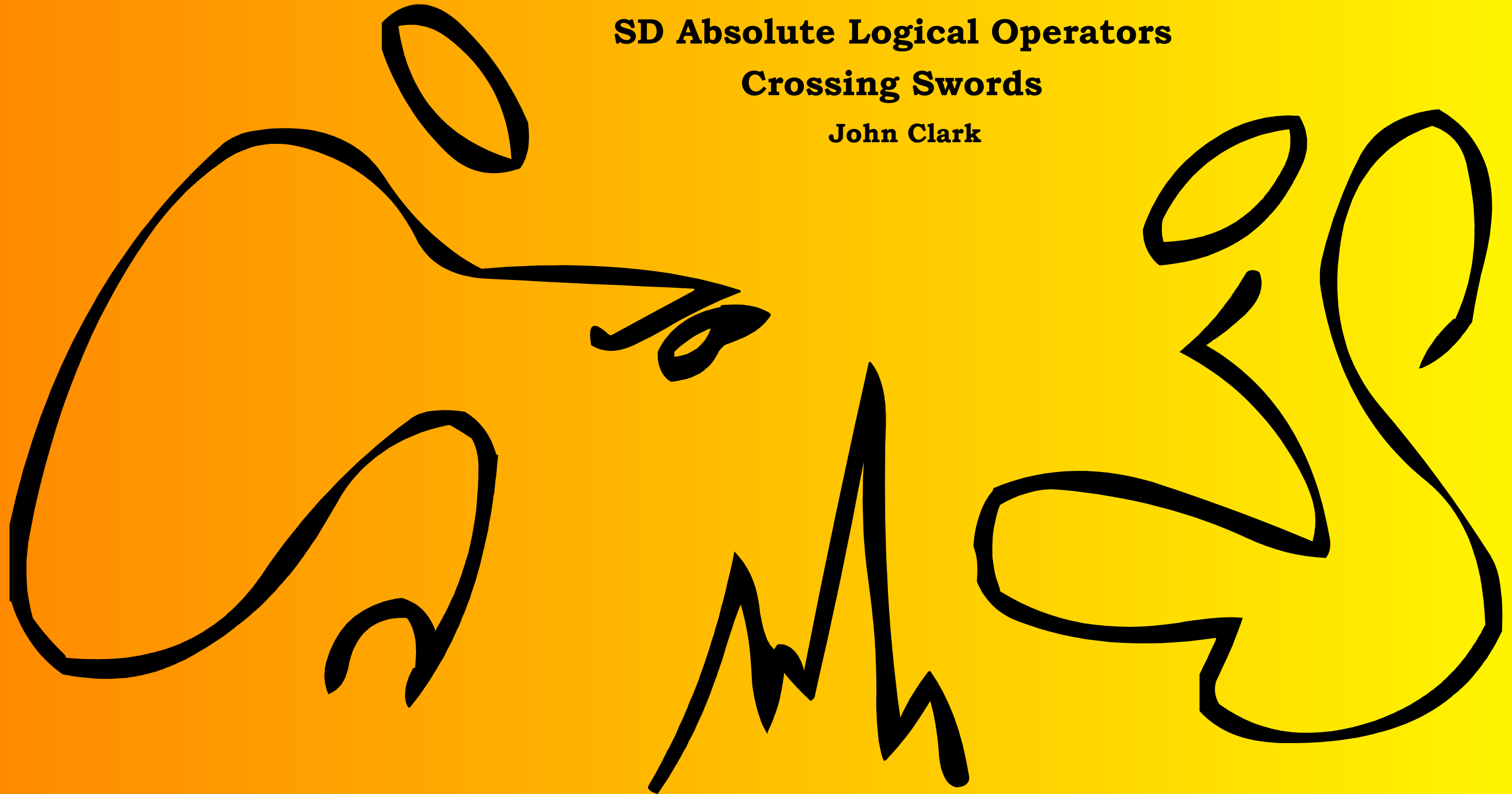
This volume is on absolute logical operators.

Basic Analog Grammar

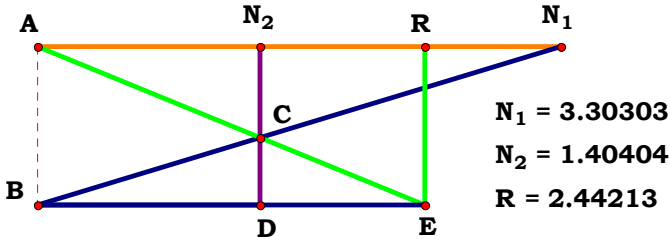
SD Absolute Logical Operators

Crossing Swords

John Clark



John 312



Unit. $AB := 1$ Given. $N_1 := 3.30303$ $N_2 := 1.40404$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$\frac{N_u}{B - A} = 2.442133$ $Num := \frac{N_u}{\sqrt{(N_u)^2}}$ $Den := \frac{B - A}{\sqrt{(B - A)^2}}$ $L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{N_u \cdot \sqrt{(A - B)^2}}{\sqrt{N_u^2 \cdot (B - A)}} = 0$



For 2 variables there are 4 subsets.

0, 0: 0

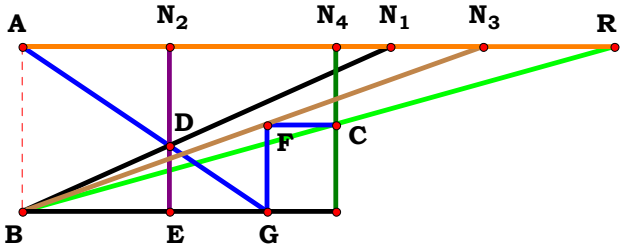
1, 0:
$$-\frac{N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{N_u^2}}$$

0, 2:
$$\frac{N_u \cdot \sqrt{(B-1)^2}}{(B-1) \cdot \sqrt{N_u^2}}$$

1, 2:
$$\frac{N_u \cdot \sqrt{(A-B)^2}}{\sqrt{N_u^2} \cdot (B-A)}$$



1CST1R1



N₁ = 2.22514
N₂ = 0.88850
N₃ = 2.79164
N₄ = 1.89818
R = 3.58260

Unit. AB := 1 Given. N₁ := 2.22514 N₂ := .88850 N₃ := 2.79164 N₄ := 1.89818

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (B - A)}{C \cdot D} = 3.582585$$

$$\text{Num} := \frac{N_u \cdot (B - A)}{\sqrt{[N_u \cdot (B - A)]^2}}$$

$$\text{Den} := \frac{C \cdot D}{\sqrt{(C \cdot D)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot \sqrt{C^2 \cdot D^2} \cdot (B - A)}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A - B)^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

0, 0, 0, 4: 0

1, 0, 0, 0:
$$-\frac{N_u \cdot (A - 1)}{\sqrt{N_u^2 \cdot (A - 1)^2}}$$

1, 0, 0, 4:
$$-\frac{N_u \cdot (A - 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

0, 2, 0, 0:
$$\frac{N_u \cdot (B - 1)}{\sqrt{N_u^2 \cdot (B - 1)^2}}$$

0, 2, 0, 4:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

1, 2, 0, 0:
$$-\frac{N_u \cdot (A - B)}{\sqrt{N_u^2 \cdot (A - B)^2}}$$

1, 2, 0, 4:
$$-\frac{N_u \cdot \sqrt{D^2} \cdot (A - B)}{D \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

0, 0, 3, 0: 0

0, 0, 3, 4: 0

1, 0, 3, 0:
$$-\frac{N_u \cdot (A - 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

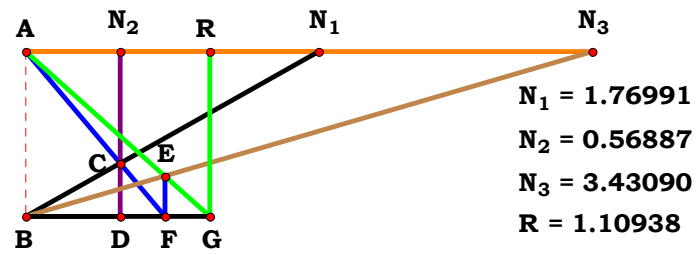
1, 0, 3, 4:
$$-\frac{N_u \cdot (A - 1) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

0, 2, 3, 0:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

0, 2, 3, 4:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

1, 2, 3, 0:
$$-\frac{N_u \cdot \sqrt{C^2} \cdot (A - B)}{C \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

1, 2, 3, 4:
$$-\frac{N_u \cdot \sqrt{C^2 \cdot D^2} \cdot (B - A)}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$



Unit. AB := 1 **Given.** $N_1 := 1.76991$ $N_2 := .56887$ $N_3 := 3.43090$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{N_u}{B-A-C} = 1.109383 \quad \text{Num} := \frac{N_u}{\sqrt{(N_u)^2}} \quad \text{Den} := \frac{B-A-C}{\sqrt{(B-A-C)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{(\mathbf{A} - \mathbf{B} + \mathbf{C})^2}}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - \mathbf{A} - \mathbf{C})}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0:
$$-\frac{N_u}{\sqrt{N_u^2}}$$

1, 0, 0:
$$-\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$$

0, 2, 0:
$$\frac{N_u \cdot \sqrt{(B-2)^2}}{(B-2) \cdot \sqrt{N_u^2}}$$

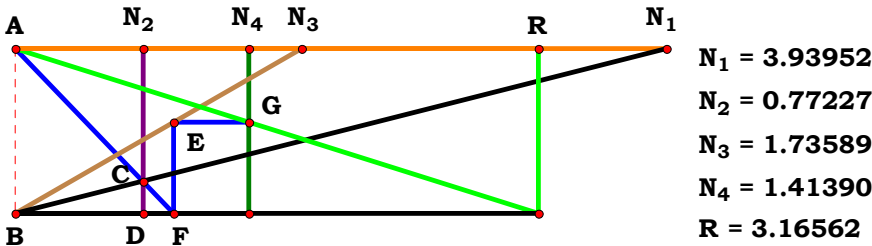
1, 2, 0:
$$-\frac{N_u \cdot \sqrt{(A-B+1)^2}}{\sqrt{N_u^2} \cdot (A-B+1)}$$

0, 0, 3:
$$-\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$$

1, 0, 3:
$$-\frac{N_u \cdot \sqrt{(A+C-1)^2}}{\sqrt{N_u^2} \cdot (A+C-1)}$$

0, 2, 3:
$$-\frac{N_u \cdot \sqrt{(C-B+1)^2}}{\sqrt{N_u^2} \cdot (C-B+1)}$$

1, 2, 3:
$$\frac{N_u \cdot \sqrt{(A-B+C)^2}}{\sqrt{N_u^2} \cdot (B-A-C)}$$



Unit. $AB := 1$ Given. $N_1 := 3.93952$ $N_2 := .77227$ $N_3 := 1.73589$ $N_4 := 1.41390$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$\frac{N_u \cdot (A - B)}{D \cdot (A - B + C)} = 3.165638$

$Num := \frac{N_u \cdot (A - B)}{\sqrt{[N_u \cdot (A - B)]^2}}$

$Den := \frac{D \cdot (A - B + C)}{\sqrt{[D \cdot (A - B + C)]^2}}$

$L := \frac{Num}{Den}$

Definitions.

$Num = -1$ $Den = -1$ $L = 1$

$L - \frac{N_u \cdot \sqrt{D^2 \cdot (A - B + C)^2 \cdot (A - B)}}{D \cdot \sqrt{N_u^2 \cdot (A - B)^2 \cdot (A - B + C)}} = 0$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

0, 0, 0, 4: 0

1, 0, 0, 0:
$$\frac{N_u \cdot (A - 1) \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

1, 0, 0, 4:
$$\frac{N_u \cdot (A - 1) \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

0, 2, 0, 0:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{(B - 2)^2}}{(B - 2) \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

0, 2, 0, 4:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{D^2 \cdot (B - 2)^2}}{D \cdot (B - 2) \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

1, 2, 0, 0:
$$\frac{N_u \cdot \sqrt{(A - B + 1)^2} \cdot (A - B)}{\sqrt{N_u^2 \cdot (A - B)^2 \cdot (A - B + 1)}}$$

1, 2, 0, 4:
$$\frac{N_u \cdot \sqrt{D^2 \cdot (A - B + 1)^2} \cdot (A - B)}{D \cdot \sqrt{N_u^2 \cdot (A - B)^2 \cdot (A - B + 1)}}$$

0, 0, 3, 0: 0

0, 0, 3, 4: 0

1, 0, 3, 0:
$$\frac{N_u \cdot (A - 1) \cdot \sqrt{(A + C - 1)^2}}{\sqrt{N_u^2 \cdot (A - 1)^2 \cdot (A + C - 1)}}$$

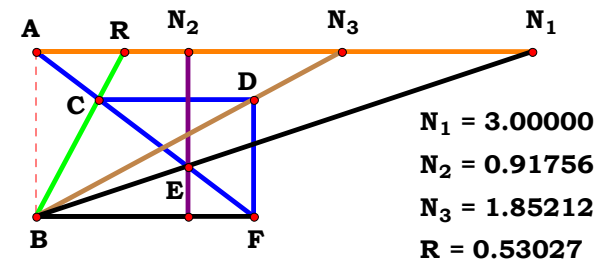
1, 0, 3, 4:
$$\frac{N_u \cdot \sqrt{D^2 \cdot (A + C - 1)^2} \cdot (A - 1)}{D \cdot \sqrt{N_u^2 \cdot (A - 1)^2 \cdot (A + C - 1)}}$$

0, 2, 3, 0:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{(C - B + 1)^2}}{\sqrt{N_u^2 \cdot (B - 1)^2 \cdot (C - B + 1)}}$$

0, 2, 3, 4:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{D^2 \cdot (C - B + 1)^2}}{D \cdot \sqrt{N_u^2 \cdot (B - 1)^2 \cdot (C - B + 1)}}$$

1, 2, 3, 0:
$$\frac{N_u \cdot \sqrt{(A - B + C)^2} \cdot (A - B)}{\sqrt{N_u^2 \cdot (A - B)^2 \cdot (A - B + C)}}$$

1, 2, 3, 4:
$$\frac{N_u \cdot \sqrt{D^2 \cdot (A - B + C)^2} \cdot (A - B)}{D \cdot \sqrt{N_u^2 \cdot (A - B)^2 \cdot (A - B + C)}}$$


1CST1R5

Unit. AB := 1 **Given.** $N_1 := 3$ $N_2 := .91756$ $N_3 := 1.85212$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{N}_u \cdot (\mathbf{B} - \mathbf{A} - \mathbf{C})}{\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})} = 0.530267$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{B} - \mathbf{A} - \mathbf{C})}{\sqrt{[\mathbf{N_u} \cdot (\mathbf{B} - \mathbf{A} - \mathbf{C})]^2}} \quad \mathbf{Den} := \frac{\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})}{\sqrt{[\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{[\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})]^2} \cdot (\mathbf{B} - \mathbf{A} - \mathbf{C})}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - \mathbf{A} - \mathbf{C})^2 \cdot [\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})]}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$\frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{A} - 1)^2}}{(\mathbf{A} - 1) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2}}$$

0, 2, 0:
$$\frac{\mathbf{N_u} \cdot (\mathbf{B} - 2) \cdot \sqrt{(\mathbf{B} - 1)^2}}{(\mathbf{B} - 1) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} - 2)^2}}$$

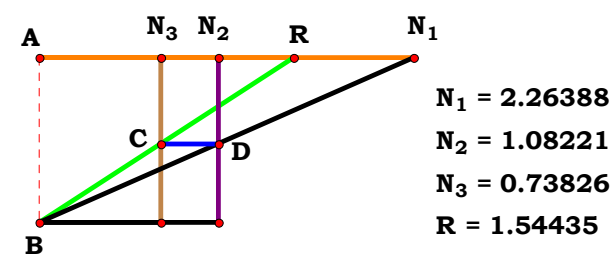
1, 2, 0:
$$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{A} - \mathbf{B})^2} \cdot (\mathbf{A} - \mathbf{B} + 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B} + 1)^2} \cdot (\mathbf{A} - \mathbf{B})}$$

0, 0, 3: 0

1, 0, 3:
$$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - 1)^2} \cdot (\mathbf{A} + \mathbf{C} - 1)}{\mathbf{C} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{C} - 1)^2} \cdot (\mathbf{A} - 1)}$$

0, 2, 3:
$$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{B} - 1)^2} \cdot (\mathbf{C} - \mathbf{B} + 1)}{\mathbf{C} \cdot (\mathbf{B} - 1) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{C} - \mathbf{B} + 1)^2}}$$

1, 2, 3:
$$\frac{\mathbf{N_u} \cdot \sqrt{[\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})]^2} \cdot (\mathbf{B} - \mathbf{A} - \mathbf{C})}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} - \mathbf{A} - \mathbf{C})^2} \cdot [\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})]}$$



$N_1 = 2.26388$
 $N_2 = 1.08221$
 $N_3 = 0.73826$
 $R = 1.54435$

Unit. $AB := 1$ Given. $N_1 := 2.26388$ $N_2 := 1.08221$ $N_3 := .73826$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$\frac{B \cdot N_u}{A \cdot C} = 1.544369$ $Num := \frac{B \cdot N_u}{\sqrt{(B \cdot N_u)^2}}$ $Den := \frac{A \cdot C}{\sqrt{(A \cdot C)^2}}$ $L := \frac{Num}{Den}$

Definitions.

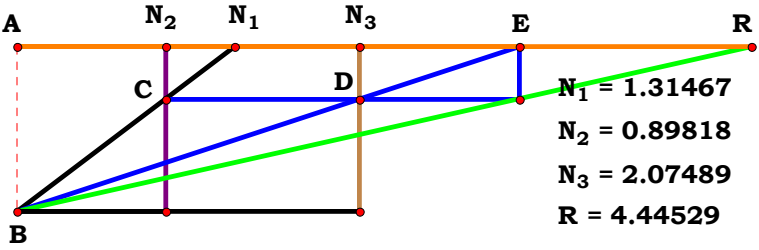
$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{B \cdot N_u \cdot \sqrt{A^2 \cdot C^2}}{A \cdot C \cdot \sqrt{B^2 \cdot N_u^2}} = 0$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$
0, 2, 0:	$\frac{B \cdot N_u}{\sqrt{B^2 \cdot N_u^2}}$
1, 2, 0:	$\frac{B \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{B^2 \cdot N_u^2}}$
0, 0, 3:	$\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$
1, 0, 3:	$\frac{N_u \cdot \sqrt{A^2 \cdot C^2}}{A \cdot C \cdot \sqrt{N_u^2}}$
0, 2, 3:	$\frac{B \cdot N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{B^2 \cdot N_u^2}}$
1, 2, 3:	$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot C^2}}{A \cdot C \cdot \sqrt{B^2 \cdot N_u^2}}$



Unit. $AB := 1$ Given. $N_1 := 1.31467$ $N_2 := .89818$ $N_3 := 2.07489$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$\frac{B^2 \cdot N_u}{A^2 \cdot C} = 4.445308$ $Num := \frac{B^2 \cdot N_u}{\sqrt{(B^2 \cdot N_u)^2}}$ $Den := \frac{A^2 \cdot C}{\sqrt{(A^2 \cdot C)^2}}$ $L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{B^2 \cdot N_u \cdot \sqrt{A^4 \cdot C^2}}{A^2 \cdot C \cdot \sqrt{B^4 \cdot N_u^2}} = 0$



For 3 variables there are 8 subsets.

0, 0, 0: $\frac{N_u}{\sqrt{N_u^2}}$

1, 0, 0: $\frac{N_u \cdot \sqrt{A^4}}{A^2 \cdot \sqrt{N_u^2}}$

0, 2, 0: $\frac{B^2 \cdot N_u}{\sqrt{B^4 \cdot N_u^2}}$

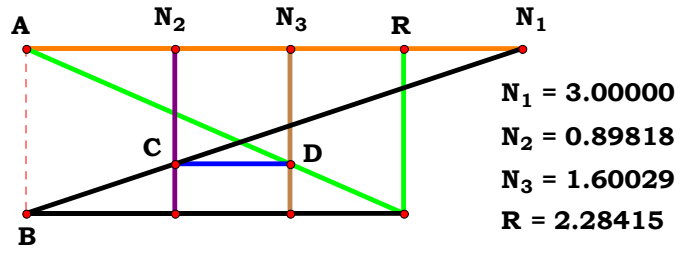
1, 2, 0: $\frac{B^2 \cdot N_u \cdot \sqrt{A^4}}{A^2 \cdot \sqrt{B^4 \cdot N_u^2}}$

0, 0, 3: $\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$

1, 0, 3: $\frac{N_u \cdot \sqrt{A^4 \cdot C^2}}{A^2 \cdot C \cdot \sqrt{N_u^2}}$

0, 2, 3: $\frac{B^2 \cdot N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{B^4 \cdot N_u^2}}$

1, 2, 3: $\frac{B^2 \cdot N_u \cdot \sqrt{A^4 \cdot C^2}}{A^2 \cdot C \cdot \sqrt{B^4 \cdot N_u^2}}$



Unit. AB := 1 **Given.** $N_1 := 3$ $N_2 := .89818$ $N_3 := 1.60029$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}}{\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})} = 2.284149 \quad \text{Num} := \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2}} \quad \text{Den} := \frac{\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})}{\sqrt{[\mathbf{C} \cdot (\mathbf{B} - \mathbf{A})]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2}}{\mathbf{C} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - \mathbf{A})}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$-\frac{N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{N_u^2}}$$

0, 2, 0:
$$\frac{B \cdot N_u \cdot \sqrt{(B-1)^2}}{(B-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

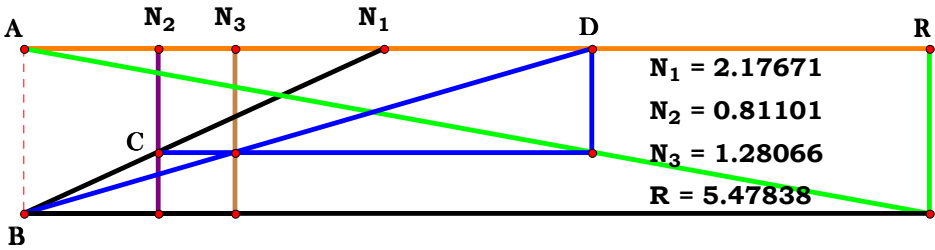
1, 2, 0:
$$-\frac{B \cdot N_u \cdot \sqrt{(A-B)^2}}{\sqrt{B^2 \cdot N_u^2} \cdot (A-B)}$$

0, 0, 3: 0

1, 0, 3:
$$-\frac{N_u \cdot \sqrt{C^2 \cdot (A-1)^2}}{C \cdot (A-1) \cdot \sqrt{N_u^2}}$$

0, 2, 3:
$$\frac{B \cdot N_u \cdot \sqrt{C^2 \cdot (B-1)^2}}{C \cdot (B-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 3:
$$\frac{B \cdot N_u \cdot \sqrt{C^2 \cdot (A-B)^2}}{C \cdot \sqrt{B^2 \cdot N_u^2} \cdot (B-A)}$$



Unit. $AB := 1$ Given. $N_1 := 2.17671$ $N_2 := .81101$ $N_3 := 1.28066$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{B^2 \cdot N_u}{C \cdot (A \cdot B - A^2)} = 5.478397$$

$$\text{Num} := \frac{B^2 \cdot N_u}{\sqrt{(B^2 \cdot N_u)^2}}$$

$$\text{Den} := \frac{C \cdot (A \cdot B - A^2)}{\sqrt{[C \cdot (A \cdot B - A^2)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{B^2 \cdot N_u \cdot \sqrt{C^2 \cdot (A^2 - A \cdot B)^2}}{A \cdot C \cdot \sqrt{B^4 \cdot N_u^2 \cdot (B - A)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$-\frac{N_u \cdot \sqrt{(A - A^2)^2}}{A \cdot (A - 1) \cdot \sqrt{N_u^2}}$$

0, 2, 0:
$$\frac{B^2 \cdot N_u \cdot \sqrt{(B - 1)^2}}{(B - 1) \cdot \sqrt{B^4 \cdot N_u^2}}$$

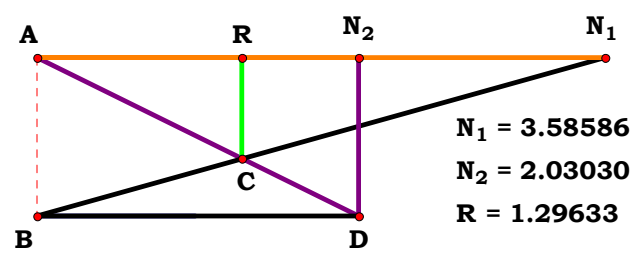
1, 2, 0:
$$-\frac{B^2 \cdot N_u \cdot \sqrt{(A^2 - A \cdot B)^2}}{A \cdot \sqrt{B^4 \cdot N_u^2} \cdot (A - B)}$$

0, 0, 3: 0

1, 0, 3:
$$-\frac{N_u \cdot \sqrt{C^2 \cdot (A - A^2)^2}}{A \cdot C \cdot (A - 1) \cdot \sqrt{N_u^2}}$$

0, 2, 3:
$$\frac{B^2 \cdot N_u \cdot \sqrt{C^2 \cdot (B - 1)^2}}{C \cdot (B - 1) \cdot \sqrt{B^4 \cdot N_u^2}}$$

1, 2, 3:
$$\frac{B^2 \cdot N_u \cdot \sqrt{C^2 \cdot (A^2 - A \cdot B)^2}}{A \cdot C \cdot \sqrt{B^4 \cdot N_u^2} \cdot (B - A)}$$



Unit. $AB := 1$ Given. $N_1 := 3.58586$ $N_2 := 2.03030$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$\frac{N_u}{A + B} = 1.296326$ $Num := \frac{N_u}{\sqrt{(N_u)^2}}$ $Den := \frac{A + B}{\sqrt{(A + B)^2}}$ $L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{N_u \cdot \sqrt{(A + B)^2}}{\sqrt{N_u^2 \cdot (A + B)}} = 0$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u}{\sqrt{N_u^2}}$$

1, 0:

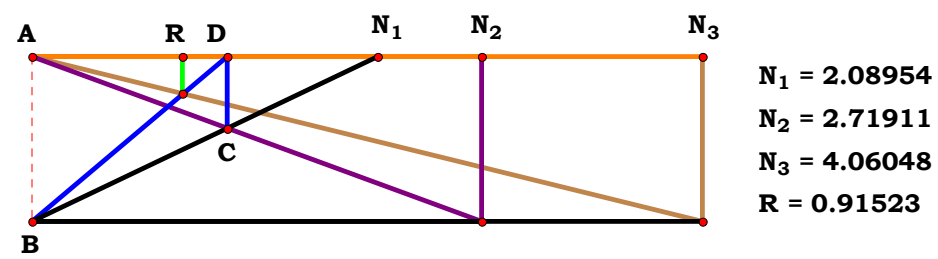
$$\frac{N_u \cdot \sqrt{(A+1)^2}}{(A+1) \cdot \sqrt{N_u^2}}$$

0, 2:

$$\frac{N_u \cdot \sqrt{(B+1)^2}}{(B+1) \cdot \sqrt{N_u^2}}$$

1, 2:

$$\frac{N_u \cdot \sqrt{(A+B)^2}}{\sqrt{N_u^2} \cdot (A+B)}$$



Unit. AB := 1 Given. N₁ := 2.08954 N₂ := 2.71911 N₃ := 4.06048

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

Descriptions.

$\frac{N_u}{A + B + C} = 0.915233$ Num := $\frac{N_u}{\sqrt{(N_u)^2}}$ Den := $\frac{A + B + C}{\sqrt{(A + B + C)^2}}$ L := $\frac{\text{Num}}{\text{Den}}$

Definitions.

Num = 1 Den = 1 L = 1

$L - \frac{N_u \cdot \sqrt{(A + B + C)^2}}{\sqrt{N_u^2 \cdot (A + B + C)}} = 0$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u}{\sqrt{N_u^2}}$$

1, 0, 0:

$$\frac{N_u \cdot \sqrt{(A+2)^2}}{(A+2) \cdot \sqrt{N_u^2}}$$

0, 2, 0:

$$\frac{N_u \cdot \sqrt{(B+2)^2}}{(B+2) \cdot \sqrt{N_u^2}}$$

1, 2, 0:

$$\frac{N_u \cdot \sqrt{(A+B+1)^2}}{\sqrt{N_u^2} \cdot (A+B+1)}$$

0, 0, 3:

$$\frac{N_u \cdot \sqrt{(C+2)^2}}{(C+2) \cdot \sqrt{N_u^2}}$$

1, 0, 3:

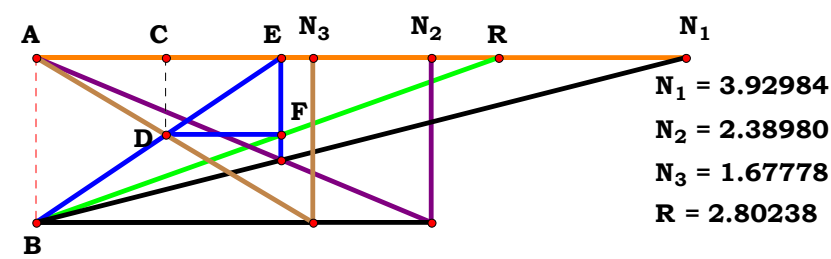
$$\frac{N_u \cdot \sqrt{(A+C+1)^2}}{\sqrt{N_u^2} \cdot (A+C+1)}$$

0, 2, 3:

$$\frac{N_u \cdot \sqrt{(B+C+1)^2}}{\sqrt{N_u^2} \cdot (B+C+1)}$$

1, 2, 3:

$$\frac{N_u \cdot \sqrt{(A+B+C)^2}}{\sqrt{N_u^2} \cdot (A+B+C)}$$



Unit. AB := 1 **Given.** $N_1 := 3.92984$ $N_2 := 2.38980$ $N_3 := 1.67778$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\frac{\mathbf{N_u \cdot (A + B + C)}}{(\mathbf{A + B})^2} = \mathbf{2.802381}$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})}{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})]^2}}$$

$$\mathbf{Den} := \frac{(\mathbf{A} + \mathbf{B})^2}{\sqrt{[(\mathbf{A} + \mathbf{B})^2]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

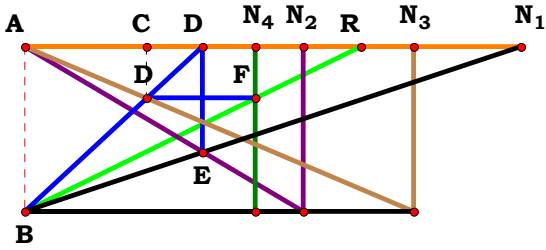
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{(\mathbf{A} + \mathbf{B})^4 \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})}}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})^2 \cdot (\mathbf{A} + \mathbf{B})^2}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{N_u \cdot (A + 2) \cdot \sqrt{(A + 1)^4}}{(A + 1)^2 \cdot \sqrt{N_u^2 \cdot (A + 2)^2}}$
0, 2, 0:	$\frac{N_u \cdot (B + 2) \cdot \sqrt{(B + 1)^4}}{(B + 1)^2 \cdot \sqrt{N_u^2 \cdot (B + 2)^2}}$
1, 2, 0:	$\frac{N_u \cdot \sqrt{(A + B)^4} \cdot (A + B + 1)}{\sqrt{N_u^2 \cdot (A + B + 1)^2 \cdot (A + B)^2}}$
0, 0, 3:	$\frac{N_u \cdot (C + 2)}{\sqrt{N_u^2 \cdot (C + 2)^2}}$
1, 0, 3:	$\frac{N_u \cdot \sqrt{(A + 1)^4} \cdot (A + C + 1)}{\sqrt{N_u^2 \cdot (A + C + 1)^2 \cdot (A + 1)^2}}$
0, 2, 3:	$\frac{N_u \cdot \sqrt{(B + 1)^4} \cdot (B + C + 1)}{\sqrt{N_u^2 \cdot (B + C + 1)^2 \cdot (B + 1)^2}}$
1, 2, 3:	$\frac{N_u \cdot \sqrt{(A + B)^4} \cdot (A + B + C)}{\sqrt{N_u^2 \cdot (A + B + C)^2 \cdot (A + B)^2}}$



$N_1 = 3.00000$
 $N_2 = 1.68273$
 $N_3 = 2.35578$
 $N_4 = 1.39452$
 $R = 2.03268$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.68273$ $N_3 := 2.35578$ $N_4 := 1.39452$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (A + B + C)}{D \cdot (A + B)} = 2.032676$$

$$Num := \frac{N_u \cdot (A + B + C)}{\sqrt{[N_u \cdot (A + B + C)]^2}}$$

$$Den := \frac{D \cdot (A + B)}{\sqrt{[D \cdot (A + B)]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

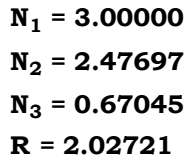
$Num = 1 \quad Den = 1 \quad L = 1$

$$L - \frac{N_u \cdot \sqrt{D^2 \cdot (A + B)^2} \cdot (A + B + C)}{D \cdot \sqrt{N_u^2 \cdot (A + B + C)^2} \cdot (A + B)} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot (A+2) \cdot \sqrt{(A+1)^2}}{(A+1) \cdot \sqrt{N_u^2 \cdot (A+2)^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot (A+2) \cdot \sqrt{D^2 \cdot (A+1)^2}}{D \cdot (A+1) \cdot \sqrt{N_u^2 \cdot (A+2)^2}}$
0, 2, 0, 0:	$\frac{N_u \cdot (B+2) \cdot \sqrt{(B+1)^2}}{(B+1) \cdot \sqrt{N_u^2 \cdot (B+2)^2}}$	0, 2, 0, 4:	$\frac{N_u \cdot (B+2) \cdot \sqrt{D^2 \cdot (B+1)^2}}{D \cdot (B+1) \cdot \sqrt{N_u^2 \cdot (B+2)^2}}$
1, 2, 0, 0:	$\frac{N_u \cdot \sqrt{(A+B)^2} \cdot (A+B+1)}{\sqrt{N_u^2 \cdot (A+B+1)^2} \cdot (A+B)}$	1, 2, 0, 4:	$\frac{N_u \cdot \sqrt{D^2 \cdot (A+B)^2} \cdot (A+B+1)}{D \cdot \sqrt{N_u^2 \cdot (A+B+1)^2} \cdot (A+B)}$
0, 0, 3, 0:	$\frac{N_u \cdot (C+2)}{\sqrt{N_u^2 \cdot (C+2)^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot (C+2) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (C+2)^2}}$
1, 0, 3, 0:	$\frac{N_u \cdot \sqrt{(A+1)^2} \cdot (A+C+1)}{\sqrt{N_u^2 \cdot (A+C+1)^2} \cdot (A+1)}$	1, 0, 3, 4:	$\frac{N_u \cdot \sqrt{D^2 \cdot (A+1)^2} \cdot (A+C+1)}{D \cdot \sqrt{N_u^2 \cdot (A+C+1)^2} \cdot (A+1)}$
0, 2, 3, 0:	$\frac{N_u \cdot \sqrt{(B+1)^2} \cdot (B+C+1)}{\sqrt{N_u^2 \cdot (B+C+1)^2} \cdot (B+1)}$	0, 2, 3, 4:	$\frac{N_u \cdot \sqrt{D^2 \cdot (B+1)^2} \cdot (B+C+1)}{D \cdot \sqrt{N_u^2 \cdot (B+C+1)^2} \cdot (B+1)}$
1, 2, 3, 0:	$\frac{N_u \cdot \sqrt{(A+B)^2} \cdot (A+B+C)}{\sqrt{N_u^2 \cdot (A+B+C)^2} \cdot (A+B)}$	1, 2, 3, 4:	$\frac{N_u \cdot \sqrt{D^2 \cdot (A+B)^2} \cdot (A+B+C)}{D \cdot \sqrt{N_u^2 \cdot (A+B+C)^2} \cdot (A+B)}$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$
$$\frac{\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})}{\mathbf{C} \cdot (\mathbf{A} + \mathbf{B})} = 2.027206$$

$$\mathbf{Den} := \frac{\mathbf{C} \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{C} \cdot (\mathbf{A} + \mathbf{B})]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B})^2} \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})}{\mathbf{C} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})^2} \cdot (\mathbf{A} + \mathbf{B})} = \mathbf{0}$$



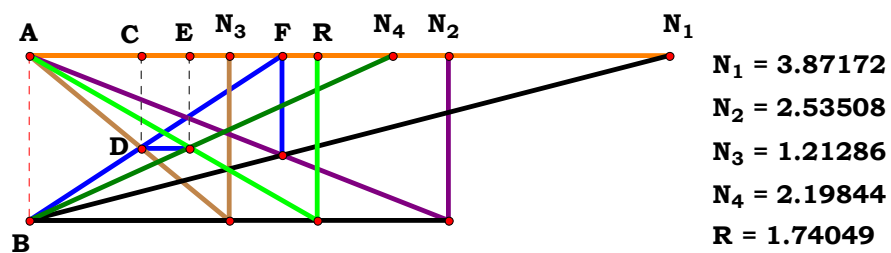
For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{N_u \cdot (A + 2) \cdot \sqrt{(A + 1)^2}}{(A + 1) \cdot \sqrt{N_u^2 \cdot (A + 2)^2}}$
0, 2, 0:	$\frac{N_u \cdot (B + 2) \cdot \sqrt{(B + 1)^2}}{(B + 1) \cdot \sqrt{N_u^2 \cdot (B + 2)^2}}$
1, 2, 0:	$\frac{N_u \cdot \sqrt{(A + B)^2} \cdot (A + B + 1)}{\sqrt{N_u^2 \cdot (A + B + 1)^2} \cdot (A + B)}$
0, 0, 3:	$\frac{N_u \cdot (C + 2) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (C + 2)^2}}$
1, 0, 3:	$\frac{N_u \cdot \sqrt{C^2 \cdot (A + 1)^2} \cdot (A + C + 1)}{C \cdot \sqrt{N_u^2 \cdot (A + C + 1)^2} \cdot (A + 1)}$
0, 2, 3:	$\frac{N_u \cdot \sqrt{C^2 \cdot (B + 1)^2} \cdot (B + C + 1)}{C \cdot \sqrt{N_u^2 \cdot (B + C + 1)^2} \cdot (B + 1)}$
1, 2, 3:	$\frac{N_u \cdot \sqrt{C^2 \cdot (A + B)^2} \cdot (A + B + C)}{C \cdot \sqrt{N_u^2 \cdot (A + B + C)^2} \cdot (A + B)}$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{\mathbf{N_u}}{\sqrt{\mathbf{N_u}^2}}$	0, 0, 0, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2}}{\mathbf{D} \cdot \sqrt{\mathbf{N_u}^2}}$
1, 0, 0, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{A} + 1) \cdot \sqrt{(\mathbf{A} + 2)^2}}{(\mathbf{A} + 2) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + 1)^2}}$	1, 0, 0, 4:	$\frac{\mathbf{N_u} \cdot (\mathbf{A} + 1) \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A} + 2)^2}}{\mathbf{D} \cdot (\mathbf{A} + 2) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + 1)^2}}$
0, 2, 0, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} + 1) \cdot \sqrt{(\mathbf{B} + 2)^2}}{(\mathbf{B} + 2) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} + 1)^2}}$	0, 2, 0, 4:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} + 1) \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{B} + 2)^2}}{\mathbf{D} \cdot (\mathbf{B} + 2) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} + 1)^2}}$
1, 2, 0, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \cdot \sqrt{(\mathbf{A} + \mathbf{B} + 1)^2}}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{A} + \mathbf{B} + 1)}}$	1, 2, 0, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A} + \mathbf{B} + 1)^2} \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{D} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{A} + \mathbf{B} + 1)}}$
0, 0, 3, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{C} + 2)^2}}{(\mathbf{C} + 2) \cdot \sqrt{\mathbf{N_u}^2}}$	0, 0, 3, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{C} + 2)^2}}{\mathbf{D} \cdot (\mathbf{C} + 2) \cdot \sqrt{\mathbf{N_u}^2}}$
1, 0, 3, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{A} + 1) \cdot \sqrt{(\mathbf{A} + \mathbf{C} + 1)^2}}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + 1)^2 \cdot (\mathbf{A} + \mathbf{C} + 1)}}$	1, 0, 3, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A} + \mathbf{C} + 1)^2} \cdot (\mathbf{A} + 1)}{\mathbf{D} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + 1)^2 \cdot (\mathbf{A} + \mathbf{C} + 1)}}$
0, 2, 3, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} + 1) \cdot \sqrt{(\mathbf{B} + \mathbf{C} + 1)^2}}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} + 1)^2 \cdot (\mathbf{B} + \mathbf{C} + 1)}}$	0, 2, 3, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{B} + \mathbf{C} + 1)^2} \cdot (\mathbf{B} + 1)}{\mathbf{D} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} + 1)^2 \cdot (\mathbf{B} + \mathbf{C} + 1)}}$
1, 2, 3, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{A} + \mathbf{B} + \mathbf{C})^2} \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})}}$	1, 2, 3, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})^2} \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{D} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C})}}$



$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{C} \cdot \mathbf{D}} = 1.740487 \quad \mathbf{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})]^2}} \quad \mathbf{Den} := \frac{\mathbf{C} \cdot \mathbf{D}}{\sqrt{(\mathbf{C} \cdot \mathbf{D})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

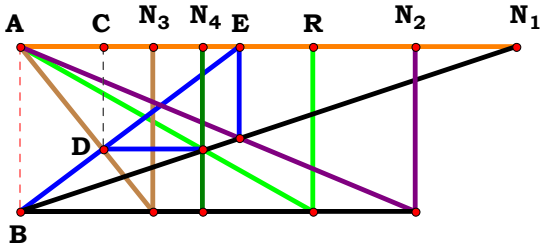
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_u \cdot \sqrt{\mathbf{C}^2 \cdot \mathbf{D}^2} \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{C} \cdot \mathbf{D} \cdot \sqrt{\mathbf{N}_u^2} \cdot (\mathbf{A} + \mathbf{B})^2} = \mathbf{0}$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot (A + 1)}{\sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 2, 0, 0:	$\frac{N_u \cdot (B + 1)}{\sqrt{N_u^2 \cdot (B + 1)^2}}$	0, 2, 0, 4:	$\frac{N_u \cdot (B + 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$
1, 2, 0, 0:	$\frac{N_u \cdot (A + B)}{\sqrt{N_u^2 \cdot (A + B)^2}}$	1, 2, 0, 4:	$\frac{N_u \cdot \sqrt{D^2} \cdot (A + B)}{D \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$
0, 0, 3, 0:	$\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2}}$
1, 0, 3, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 0, 3, 4:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 2, 3, 0:	$\frac{N_u \cdot (B + 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$	0, 2, 3, 4:	$\frac{N_u \cdot (B + 1) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$
1, 2, 3, 0:	$\frac{N_u \cdot \sqrt{C^2} \cdot (A + B)}{C \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$	1, 2, 3, 4:	$\frac{N_u \cdot \sqrt{C^2 \cdot D^2} \cdot (A + B)}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$



$N_1 = 3.00000$
 $N_2 = 2.38980$
 $N_3 = 0.80606$
 $N_4 = 1.10395$
 $R = 1.77292$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.3898$ $N_3 := .80606$ $N_4 := 1.10395$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (A + B + C)}{C \cdot D} = 1.77292$$

$$Num := \frac{N_u \cdot (A + B + C)}{\sqrt{[N_u \cdot (A + B + C)]^2}}$$

$$Den := \frac{C \cdot D}{\sqrt{(C \cdot D)^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

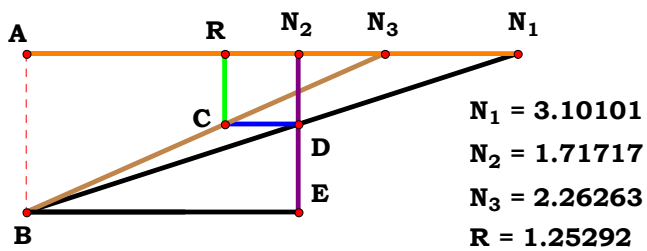
$$L - \frac{N_u \cdot \sqrt{C^2 \cdot D^2 \cdot (A + B + C)}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A + B + C)^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot (A + 2)}{\sqrt{N_u^2 \cdot (A + 2)^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot (A + 2) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (A + 2)^2}}$
0, 2, 0, 0:	$\frac{N_u \cdot (B + 2)}{\sqrt{N_u^2 \cdot (B + 2)^2}}$	0, 2, 0, 4:	$\frac{N_u \cdot (B + 2) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (B + 2)^2}}$
1, 2, 0, 0:	$\frac{N_u \cdot (A + B + 1)}{\sqrt{N_u^2 \cdot (A + B + 1)^2}}$	1, 2, 0, 4:	$\frac{N_u \cdot \sqrt{D^2} \cdot (A + B + 1)}{D \cdot \sqrt{N_u^2 \cdot (A + B + 1)^2}}$
0, 0, 3, 0:	$\frac{N_u \cdot (C + 2) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (C + 2)^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot (C + 2) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (C + 2)^2}}$
1, 0, 3, 0:	$\frac{N_u \cdot \sqrt{C^2} \cdot (A + C + 1)}{C \cdot \sqrt{N_u^2 \cdot (A + C + 1)^2}}$	1, 0, 3, 4:	$\frac{N_u \cdot \sqrt{C^2 \cdot D^2} \cdot (A + C + 1)}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A + C + 1)^2}}$
0, 2, 3, 0:	$\frac{N_u \cdot \sqrt{C^2} \cdot (B + C + 1)}{C \cdot \sqrt{N_u^2 \cdot (B + C + 1)^2}}$	0, 2, 3, 4:	$\frac{N_u \cdot \sqrt{C^2 \cdot D^2} \cdot (B + C + 1)}{C \cdot D \cdot \sqrt{N_u^2 \cdot (B + C + 1)^2}}$
1, 2, 3, 0:	$\frac{N_u \cdot \sqrt{C^2} \cdot (A + B + C)}{C \cdot \sqrt{N_u^2 \cdot (A + B + C)^2}}$	1, 2, 3, 4:	$\frac{N_u \cdot \sqrt{C^2 \cdot D^2} \cdot (A + B + C)}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A + B + C)^2}}$

1CST3R0



Unit. $AB := 1$ **Given.** $N_1 := 3.10101$ $N_2 := 2.26263$ $N_3 := 1.71717$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{N}_u}{\mathbf{B} \cdot \mathbf{C}} = 1.252921 \quad \mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_u}{\sqrt{(\mathbf{A} \cdot \mathbf{N}_u)^2}} \quad \mathbf{Den} := \frac{\mathbf{B} \cdot \mathbf{C}}{\sqrt{(\mathbf{B} \cdot \mathbf{C})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot N_u \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{A^2 \cdot N_u^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u}{\sqrt{N_u^2}}$$

1, 0, 0:

$$\frac{A \cdot N_u}{\sqrt{A^2 \cdot N_u^2}}$$

0, 2, 0:

$$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$$

1, 2, 0:

$$\frac{A \cdot N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{A^2 \cdot N_u^2}}$$

0, 0, 3:

$$\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$$

1, 0, 3:

$$\frac{A \cdot N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{A^2 \cdot N_u^2}}$$

0, 2, 3:

$$\frac{N_u \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{N_u^2}}$$

1, 2, 3:

$$\frac{A \cdot N_u \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{A^2 \cdot N_u^2}}$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u}{\sqrt{N_u^2}}$$

1, 0, 0:

$$\frac{A^2 \cdot N_u}{\sqrt{A^4 \cdot N_u^2}}$$

0, 2, 0:

$$\frac{N_u \cdot \sqrt{B^4}}{B^2 \cdot \sqrt{N_u^2}}$$

1, 2, 0:

$$\frac{A^2 \cdot N_u \cdot \sqrt{B^4}}{B^2 \cdot \sqrt{A^4 \cdot N_u^2}}$$

0, 0, 3:

$$\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$$

1, 0, 3:

$$\frac{A^2 \cdot N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{A^4 \cdot N_u^2}}$$

0, 2, 3:

$$\frac{N_u \cdot \sqrt{B^4 \cdot C^2}}{B^2 \cdot C \cdot \sqrt{N_u^2}}$$

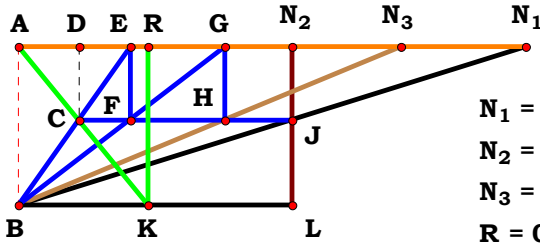
1, 2, 3:

$$\frac{A^2 \cdot N_u \cdot \sqrt{B^4 \cdot C^2}}{B^2 \cdot C \cdot \sqrt{A^4 \cdot N_u^2}}$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{A^3 \cdot N_u}{\sqrt{A^6 \cdot N_u^2}}$
0, 2, 0:	$\frac{N_u \cdot \sqrt{B^6}}{B^3 \cdot \sqrt{N_u^2}}$
1, 2, 0:	$\frac{A^3 \cdot N_u \cdot \sqrt{B^6}}{B^3 \cdot \sqrt{A^6 \cdot N_u^2}}$
0, 0, 3:	$\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$
1, 0, 3:	$\frac{A^3 \cdot N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{A^6 \cdot N_u^2}}$
0, 2, 3:	$\frac{N_u \cdot \sqrt{B^6 \cdot C^2}}{B^3 \cdot C \cdot \sqrt{N_u^2}}$
1, 2, 3:	$\frac{A^3 \cdot N_u \cdot \sqrt{B^6 \cdot C^2}}{B^3 \cdot C \cdot \sqrt{A^6 \cdot N_u^2}}$



$N_1 = 3.20202$
 $N_2 = 1.72727$
 $N_3 = 2.41414$
 $R = 0.82277$

Unit. $AB := 1$ Given. $N_1 := 3.20202$ $N_2 := 1.72727$ $N_3 := 2.41414$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{A^3 \cdot N_u}{B^2 \cdot C \cdot (B - A)} = 0.822767$$

$$Num := \frac{A^3 \cdot N_u}{\sqrt{\left(A^3 \cdot N_u\right)^2}}$$

$$Den := \frac{B^2 \cdot C \cdot (B - A)}{\sqrt{\left[B^2 \cdot C \cdot (B - A)\right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{A^3 \cdot N_u \cdot \sqrt{B^4 \cdot C^2 \cdot (A - B)^2}}{B^2 \cdot C \cdot \sqrt{A^6 \cdot N_u^2 \cdot (B - A)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$-\frac{A^3 \cdot N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{A^6 \cdot N_u^2}}$$

0, 2, 0:
$$\frac{N_u \cdot \sqrt{B^4 \cdot (B-1)^2}}{B^2 \cdot (B-1) \cdot \sqrt{N_u^2}}$$

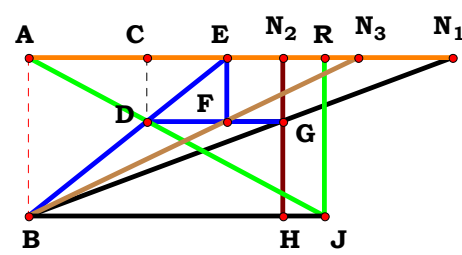
1, 2, 0:
$$-\frac{A^3 \cdot N_u \cdot \sqrt{B^4 \cdot (A-B)^2}}{B^2 \cdot \sqrt{A^6 \cdot N_u^2} \cdot (A-B)}$$

0, 0, 3: 0

1, 0, 3:
$$-\frac{A^3 \cdot N_u \cdot \sqrt{C^2 \cdot (A-1)^2}}{C \cdot (A-1) \cdot \sqrt{A^6 \cdot N_u^2}}$$

0, 2, 3:
$$\frac{N_u \cdot \sqrt{B^4 \cdot C^2 \cdot (B-1)^2}}{B^2 \cdot C \cdot (B-1) \cdot \sqrt{N_u^2}}$$

1, 2, 3:
$$\frac{A^3 \cdot N_u \cdot \sqrt{B^4 \cdot C^2 \cdot (A-B)^2}}{B^2 \cdot C \cdot \sqrt{A^6 \cdot N_u^2} \cdot (B-A)}$$



N₁ = 2.67677
N₂ = 1.60606
N₃ = 2.08081
R = 1.87273

Unit. AB := 1 Given. N₁ := 2.67677 N₂ := 1.60606 N₃ := 2.08081

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

Descriptions.

$$\frac{A^2 \cdot N_u}{C \cdot (B^2 - A \cdot B)} = 1.872721$$

$$\text{Num} := \frac{A^2 \cdot N_u}{\sqrt{(A^2 \cdot N_u)^2}}$$

$$\text{Den} := \frac{C \cdot (B^2 - A \cdot B)}{\sqrt{[C \cdot (B^2 - A \cdot B)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{A^2 \cdot N_u \cdot \sqrt{C^2 \cdot (B^2 - A \cdot B)^2}}{B \cdot C \cdot \sqrt{A^4 \cdot N_u^2 \cdot (B - A)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$-\frac{A^2 \cdot N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{A^4 \cdot N_u^2}}$$

0, 2, 0:
$$\frac{N_u \cdot \sqrt{(B-B^2)^2}}{B \cdot (B-1) \cdot \sqrt{N_u^2}}$$

1, 2, 0:
$$-\frac{A^2 \cdot N_u \cdot \sqrt{(B^2-A \cdot B)^2}}{B \cdot \sqrt{A^4 \cdot N_u^2} \cdot (A-B)}$$

0, 0, 3: 0

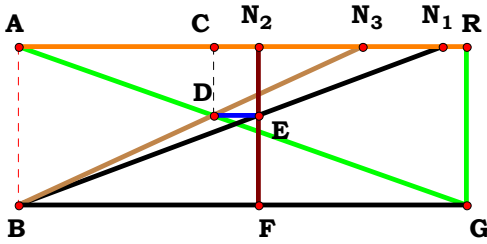
1, 0, 3:
$$-\frac{A^2 \cdot N_u \cdot \sqrt{C^2 \cdot (A-1)^2}}{C \cdot (A-1) \cdot \sqrt{A^4 \cdot N_u^2}}$$

0, 2, 3:
$$\frac{N_u \cdot \sqrt{C^2 \cdot (B-B^2)^2}}{B \cdot C \cdot (B-1) \cdot \sqrt{N_u^2}}$$

1, 2, 3:
$$\frac{A^2 \cdot N_u \cdot \sqrt{C^2 \cdot (B^2-A \cdot B)^2}}{B \cdot C \cdot \sqrt{A^4 \cdot N_u^2} \cdot (B-A)}$$



1CST3R5



$N_1 = 2.67677$
 $N_2 = 1.51515$
 $N_3 = 2.17172$
 $R = 2.83267$

Unit. $AB := 1$ Given. $N_1 := 2.67677$ $N_2 := 1.51515$ $N_3 := 2.17172$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$\frac{A \cdot N_u}{C \cdot (B - A)} = 2.832666$ $Num := \frac{A \cdot N_u}{\sqrt{(A \cdot N_u)^2}}$ $Den := \frac{C \cdot (B - A)}{\sqrt{[C \cdot (B - A)]^2}}$ $L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{A \cdot N_u \cdot \sqrt{C^2 \cdot (A - B)^2}}{C \cdot \sqrt{A^2 \cdot N_u^2 \cdot (B - A)}} = 0$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$-\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{(\mathbf{A} - 1)^2}}{(\mathbf{A} - 1) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$$

0, 2, 0:
$$\frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{(\mathbf{B} - 1)^2}}{(\mathbf{B} - 1) \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2}}$$

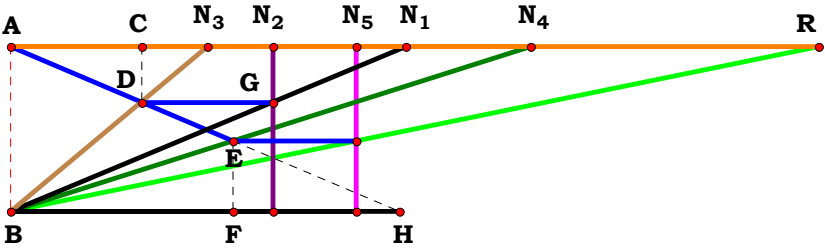
1, 2, 0:
$$-\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{(\mathbf{A} - \mathbf{B})^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot (\mathbf{A} - \mathbf{B})}$$

0, 0, 3: 0

1, 0, 3:
$$-\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - 1)^2}}{\mathbf{C} \cdot (\mathbf{A} - 1) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$$

0, 2, 3:
$$\frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{B} - 1)^2}}{\mathbf{C} \cdot (\mathbf{B} - 1) \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2}}$$

1, 2, 3:
$$\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2}}{\mathbf{C} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot (\mathbf{B} - \mathbf{A})}$$



N₁ = 2.38980
N₂ = 1.58588
N₃ = 1.19349
N₄ = 3.14765
N₅ = 2.09213
R = 4.88919

Unit. AB := 1 Given. N₁ := 2.38980 N₂ := 1.58588 N₃ := 1.19349
N₄ := 3.14765 N₅ := 2.09213

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (A \cdot D - A \cdot C + B \cdot C)}{A \cdot D \cdot E} = 4.889171$$

$$\text{Num} := \frac{N_u \cdot (A \cdot D - A \cdot C + B \cdot C)}{\sqrt{\left[N_u \cdot (A \cdot D - A \cdot C + B \cdot C)\right]^2}}$$

$$\text{Den} := \frac{A \cdot D \cdot E}{\sqrt{(A \cdot D \cdot E)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2} \cdot (A \cdot D - A \cdot C + B \cdot C)}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A \cdot D - A \cdot C + B \cdot C)^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$	1, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A \cdot D - A + 1)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A \cdot D - A + 1)^2}}$
0, 2, 0, 0, 0:	$\frac{B \cdot N_u}{\sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (B + D - 1)}{D \cdot \sqrt{N_u^2 \cdot (B + D - 1)^2}}$
1, 2, 0, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{B^2 \cdot N_u^2}}$	1, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (B - A + A \cdot D)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (B - A + A \cdot D)^2}}$
0, 0, 3, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 3, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A + C - A \cdot C)}{A \cdot \sqrt{N_u^2 \cdot (A + C - A \cdot C)^2}}$	1, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (C - A \cdot C + A \cdot D)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (C - A \cdot C + A \cdot D)^2}}$
0, 2, 3, 0, 0:	$\frac{N_u \cdot (B \cdot C - C + 1)}{\sqrt{N_u^2 \cdot (B \cdot C - C + 1)^2}}$	0, 2, 3, 4, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (D - C + B \cdot C)}{D \cdot \sqrt{N_u^2 \cdot (D - C + B \cdot C)^2}}$
1, 2, 3, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A - A \cdot C + B \cdot C)}{A \cdot \sqrt{N_u^2 \cdot (A - A \cdot C + B \cdot C)^2}}$	1, 2, 3, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A \cdot D - A \cdot C + B \cdot C)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A \cdot D - A \cdot C + B \cdot C)^2}}$

0, 0, 0, 0, 5:

$$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 5:

$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{N_u^2}}$$

0, 2, 0, 0, 5:

$$\frac{B \cdot N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 0, 0, 5:

$$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{B^2 \cdot N_u^2}}$$

0, 0, 3, 0, 5:

$$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$$

1, 0, 3, 0, 5:

$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A + C - A \cdot C)}{A \cdot E \cdot \sqrt{N_u^2} \cdot (A + C - A \cdot C)^2}$$

0, 2, 3, 0, 5:

$$\frac{N_u \cdot \sqrt{E^2} \cdot (B \cdot C - C + 1)}{E \cdot \sqrt{N_u^2} \cdot (B \cdot C - C + 1)^2}$$

1, 2, 3, 0, 5:

$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A - A \cdot C + B \cdot C)}{A \cdot E \cdot \sqrt{N_u^2} \cdot (A - A \cdot C + B \cdot C)^2}$$

0, 0, 0, 4, 5:

$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2}}{E \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 0, 4, 5:

$$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2} \cdot (A \cdot D - A + 1)}{A \cdot D \cdot E \cdot \sqrt{N_u^2} \cdot (A \cdot D - A + 1)^2}$$

0, 2, 0, 4, 5:

$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (B + D - 1)}{D \cdot E \cdot \sqrt{N_u^2} \cdot (B + D - 1)^2}$$

1, 2, 0, 4, 5:

$$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2} \cdot (B - A + A \cdot D)}{A \cdot D \cdot E \cdot \sqrt{N_u^2} \cdot (B - A + A \cdot D)^2}$$

0, 0, 3, 4, 5:

$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2}}{E \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 3, 4, 5:

$$\frac{N_u \cdot (C - A \cdot C + A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2} \cdot (C - A \cdot C + A \cdot D)^2}$$

0, 2, 3, 4, 5:

$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (D - C + B \cdot C)}{D \cdot E \cdot \sqrt{N_u^2} \cdot (D - C + B \cdot C)^2}$$

1, 2, 3, 4, 5:

$$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2} \cdot (A \cdot D - A \cdot C + B \cdot C)}{A \cdot D \cdot E \cdot \sqrt{N_u^2} \cdot (A \cdot D - A \cdot C + B \cdot C)^2}$$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$-\frac{\mathbf{N_u} \cdot (\mathbf{A} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - 1)^2}}$$

0, 2, 0:
$$\frac{\mathbf{N_u} \cdot (\mathbf{B} - 1) \cdot \sqrt{\mathbf{B}^2}}{\mathbf{B} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} - 1)^2}}$$

1, 2, 0:
$$-\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{B}^2} \cdot (\mathbf{A} - \mathbf{B})}{\mathbf{B} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B})^2}}$$

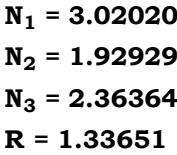
0, 0, 3: 0

1, 0, 3:
$$-\frac{\mathbf{N_u} \cdot (\mathbf{A} - 1) \cdot \sqrt{\mathbf{C}^2}}{\mathbf{C} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - 1)^2}}$$

0, 2, 3:
$$\frac{\mathbf{N_u} \cdot (\mathbf{B} - 1) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2}}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} - 1)^2}}$$

1, 2, 3:
$$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2} \cdot (\mathbf{B} - \mathbf{A})}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B})^2}}$$

1CST4R1



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{L} - \frac{\mathbf{N}_u \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2} \cdot (\mathbf{B} - \mathbf{A})}{\mathbf{A} \cdot \mathbf{C} \cdot \sqrt{\mathbf{N}_u^2 \cdot (\mathbf{A} - \mathbf{B})^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$-\frac{N_u \cdot (A - 1) \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

0, 2, 0:
$$\frac{N_u \cdot (B - 1)}{\sqrt{N_u^2 \cdot (B - 1)^2}}$$

1, 2, 0:
$$-\frac{N_u \cdot \sqrt{A^2} \cdot (A - B)}{A \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

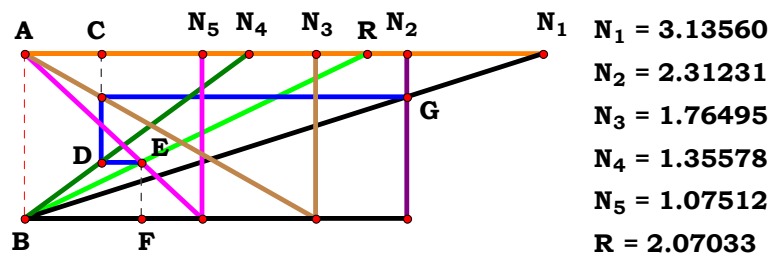
0, 0, 3: 0

1, 0, 3:
$$-\frac{N_u \cdot (A - 1) \cdot \sqrt{A^2 \cdot C^2}}{A \cdot C \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

0, 2, 3:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

1, 2, 3:
$$\frac{N_u \cdot \sqrt{A^2 \cdot C^2} \cdot (B - A)}{A \cdot C \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

1CST4R2



Descriptions.

$$\frac{\mathbf{N_u \cdot (A \cdot D + B \cdot C - B \cdot D)}}{\mathbf{D \cdot E \cdot (B - A)}} = \mathbf{2.070321}$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})}{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})]^2}}$$

Unit. $AB := 1$ **Given.** $N_1 := 3.13560$ $N_2 := 2.31231$ $N_3 := 1.76495$ $N_4 := 1.35578$
 $N_5 := 1.07512$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$

$$\mathbf{Den} := \frac{\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{B} - \mathbf{A})}{\sqrt{[\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{B} - \mathbf{A})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} - \mathbf{B})^2 \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})}}{\mathbf{D} \cdot \mathbf{E} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})^2 \cdot (\mathbf{B} - \mathbf{A})}} = \mathbf{0}$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0: 0

$$1, 0, 0, 0, 0: \frac{A \cdot N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{A^2 \cdot N_u^2}}$$

$$0, 2, 0, 0, 0: \frac{N_u \cdot \sqrt{(B-1)^2}}{(B-1) \cdot \sqrt{N_u^2}}$$

$$1, 2, 0, 0, 0: \frac{A \cdot N_u \cdot \sqrt{(A-B)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (A-B)}$$

0, 0, 3, 0, 0: 0

$$1, 0, 3, 0, 0: \frac{N_u \cdot \sqrt{(A-1)^2} \cdot (A+C-1)}{\sqrt{N_u^2} \cdot (A+C-1)^2 \cdot (A-1)}$$

$$0, 2, 3, 0, 0: \frac{N_u \cdot \sqrt{(B-1)^2} \cdot (B \cdot C - B + 1)}{(B-1) \cdot \sqrt{N_u^2} \cdot (B \cdot C - B + 1)^2}$$

$$1, 2, 3, 0, 0: \frac{N_u \cdot \sqrt{(A-B)^2} \cdot (A-B+B \cdot C)}{\sqrt{N_u^2} \cdot (A-B+B \cdot C)^2 \cdot (A-B)}$$

0, 0, 0, 4, 0: 0

$$1, 0, 0, 4, 0: \frac{N_u \cdot \sqrt{D^2} \cdot (A-1)^2 \cdot (A \cdot D - D + 1)}{D \cdot (A-1) \cdot \sqrt{N_u^2} \cdot (A \cdot D - D + 1)^2}$$

$$0, 2, 0, 4, 0: \frac{N_u \cdot \sqrt{D^2} \cdot (B-1)^2 \cdot (B+D-B \cdot D)}{D \cdot \sqrt{N_u^2} \cdot (B+D-B \cdot D)^2 \cdot (B-1)}$$

$$1, 2, 0, 4, 0: \frac{N_u \cdot \sqrt{D^2} \cdot (A-B)^2 \cdot (B+A \cdot D - B \cdot D)}{D \cdot \sqrt{N_u^2} \cdot (B+A \cdot D - B \cdot D)^2 \cdot (A-B)}$$

0, 0, 3, 4, 0: 0

$$1, 0, 3, 4, 0: \frac{N_u \cdot \sqrt{D^2} \cdot (A-1)^2 \cdot (C-D+A \cdot D)}{D \cdot (A-1) \cdot \sqrt{N_u^2} \cdot (C-D+A \cdot D)^2}$$

$$0, 2, 3, 4, 0: \frac{N_u \cdot \sqrt{D^2} \cdot (B-1)^2 \cdot (D+B \cdot C - B \cdot D)}{D \cdot (B-1) \cdot \sqrt{N_u^2} \cdot (D+B \cdot C - B \cdot D)^2}$$

$$1, 2, 3, 4, 0: \frac{N_u \cdot \sqrt{D^2} \cdot (A-B)^2 \cdot (A \cdot D + B \cdot C - B \cdot D)}{D \cdot \sqrt{N_u^2} \cdot (A \cdot D + B \cdot C - B \cdot D)^2 \cdot (A-B)}$$



0, 0, 0, 0, 5: 0

$$\frac{1, 0, 0, 0, 5: \quad \frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{\mathbf{E}^2 \cdot (\mathbf{A} - 1)^2}}{\mathbf{E} \cdot (\mathbf{A} - 1) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2}}}{}$$

$$\frac{0, 2, 0, 0, 5: \quad \frac{\mathbf{N_u} \cdot \sqrt{\mathbf{E}^2 \cdot (\mathbf{B} - 1)^2}}{\mathbf{E} \cdot (\mathbf{B} - 1) \cdot \sqrt{\mathbf{N_u}^2}}}{}$$

$$\frac{1, 2, 0, 0, 5: \quad \frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{\mathbf{E}^2 \cdot (\mathbf{A} - \mathbf{B})^2}}{\mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2} \cdot (\mathbf{A} - \mathbf{B})}}{}$$

0, 0, 3, 0, 5: 0

$$\frac{1, 0, 3, 0, 5: \quad \frac{\mathbf{N_u} \cdot \sqrt{\mathbf{E}^2 \cdot (\mathbf{A} - 1)^2} \cdot (\mathbf{A} + \mathbf{C} - 1)}{\mathbf{E} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{C} - 1)^2} \cdot (\mathbf{A} - 1)}}{}$$

$$\frac{0, 2, 3, 0, 5: \quad \frac{\mathbf{N_u} \cdot \sqrt{\mathbf{E}^2 \cdot (\mathbf{B} - 1)^2} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{B} + 1)}{\mathbf{E} \cdot (\mathbf{B} - 1) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{B} + 1)^2}}}{}$$

$$\frac{1, 2, 3, 0, 5: \quad \frac{\mathbf{N_u} \cdot \sqrt{\mathbf{E}^2 \cdot (\mathbf{A} - \mathbf{B})^2} \cdot (\mathbf{A} - \mathbf{B} + \mathbf{B} \cdot \mathbf{C})}{\mathbf{E} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B} + \mathbf{B} \cdot \mathbf{C})^2} \cdot (\mathbf{A} - \mathbf{B})}}{}$$

0, 0, 0, 4, 5: 0

$$\frac{1, 0, 0, 4, 5: \quad \frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} - 1)^2} \cdot (\mathbf{A} \cdot \mathbf{D} - \mathbf{D} + 1)}{\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} - 1) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} \cdot \mathbf{D} - \mathbf{D} + 1)^2}}}{}$$

$$\frac{0, 2, 0, 4, 5: \quad \frac{\mathbf{N_u} \cdot (\mathbf{B} + \mathbf{D} - \mathbf{B} \cdot \mathbf{D}) \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{B} - 1)^2}}{\mathbf{D} \cdot \mathbf{E} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} + \mathbf{D} - \mathbf{B} \cdot \mathbf{D})^2} \cdot (\mathbf{B} - 1)}}{}$$

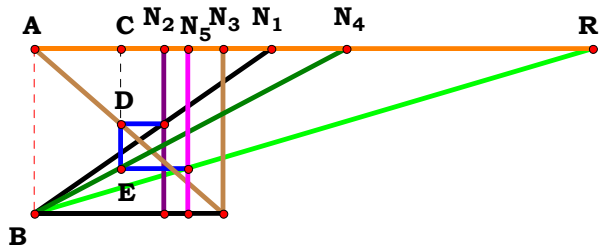
$$\frac{1, 2, 0, 4, 5: \quad \frac{\mathbf{N_u} \cdot (\mathbf{B} + \mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{D}) \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} - \mathbf{B})^2}}{\mathbf{D} \cdot \mathbf{E} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} + \mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{D})^2} \cdot (\mathbf{A} - \mathbf{B})}}{}$$

0, 0, 3, 4, 5: 0

$$\frac{1, 0, 3, 4, 5: \quad \frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} - 1)^2} \cdot (\mathbf{C} - \mathbf{D} + \mathbf{A} \cdot \mathbf{D})}{\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} - 1) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{C} - \mathbf{D} + \mathbf{A} \cdot \mathbf{D})^2}}}{}$$

$$\frac{0, 2, 3, 4, 5: \quad \frac{\mathbf{N_u} \cdot (\mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D}) \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{B} - 1)^2}}{\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{B} - 1) \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})^2}}}{}$$

$$\frac{1, 2, 3, 4, 5: \quad \frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} - \mathbf{B})^2} \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})}{\mathbf{D} \cdot \mathbf{E} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})^2} \cdot (\mathbf{B} - \mathbf{A})}}{}$$



$N_1 = 1.43090$
 $N_2 = 0.78196$
 $N_3 = 1.14506$
 $N_4 = 1.88850$
 $N_5 = 0.92984$
 $R = 3.38140$

Unit. $AB := 1$ Given. $N_1 := 1.43090$ $N_2 := .78196$ $N_3 := 1.14506$ $N_4 := 1.88850$
 $N_5 := .92984$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{B \cdot C \cdot N_u}{D \cdot E \cdot (B - A)} = 3.38144$$

$$Num := \frac{B \cdot C \cdot N_u}{\sqrt{(B \cdot C \cdot N_u)^2}}$$

$$Den := \frac{D \cdot E \cdot (B - A)}{\sqrt{[D \cdot E \cdot (B - A)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{B \cdot C \cdot N_u \cdot \sqrt{D^2 \cdot E^2 \cdot (A - B)^2}}{D \cdot E \cdot (B - A) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0: 0

0, 0, 0, 4, 0: 0

1, 0, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{N_u^2}}$$

1, 0, 0, 4, 0:
$$\frac{N_u \cdot \sqrt{D^2 \cdot (A-1)^2}}{D \cdot (A-1) \cdot \sqrt{N_u^2}}$$

0, 2, 0, 0, 0:
$$\frac{B \cdot N_u \cdot \sqrt{(B-1)^2}}{(B-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

0, 2, 0, 4, 0:
$$\frac{B \cdot N_u \cdot \sqrt{D^2 \cdot (B-1)^2}}{D \cdot (B-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 0, 0, 0:
$$\frac{B \cdot N_u \cdot \sqrt{(A-B)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (A-B)}}$$

1, 2, 0, 4, 0:
$$\frac{B \cdot N_u \cdot \sqrt{D^2 \cdot (A-B)^2}}{D \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A-B)}}$$

0, 0, 3, 0, 0: 0

0, 0, 3, 4, 0: 0

1, 0, 3, 0, 0:
$$\frac{C \cdot N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

1, 0, 3, 4, 0:
$$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (A-1)^2}}{D \cdot (A-1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

0, 2, 3, 0, 0:
$$\frac{B \cdot C \cdot N_u \cdot \sqrt{(B-1)^2}}{(B-1) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$$

0, 2, 3, 4, 0:
$$\frac{B \cdot C \cdot N_u \cdot \sqrt{D^2 \cdot (B-1)^2}}{D \cdot (B-1) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$$

1, 2, 3, 0, 0:
$$\frac{B \cdot C \cdot N_u \cdot \sqrt{(A-B)^2}}{(A-B) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$$

1, 2, 3, 4, 0:
$$\frac{B \cdot C \cdot N_u \cdot \sqrt{D^2 \cdot (A-B)^2}}{D \cdot (A-B) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$$



0, 0, 0, 0, 5: 0

0, 0, 0, 4, 5: 0

1, 0, 0, 0, 5:
$$-\frac{N_u \cdot \sqrt{E^2 \cdot (A-1)^2}}{E \cdot (A-1) \cdot \sqrt{N_u^2}}$$

1, 0, 0, 4, 5:
$$-\frac{N_u \cdot \sqrt{D^2 \cdot E^2 \cdot (A-1)^2}}{D \cdot E \cdot (A-1) \cdot \sqrt{N_u^2}}$$

0, 2, 0, 0, 5:
$$\frac{B \cdot N_u \cdot \sqrt{E^2 \cdot (B-1)^2}}{E \cdot (B-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

0, 2, 0, 4, 5:
$$\frac{B \cdot N_u \cdot \sqrt{D^2 \cdot E^2 \cdot (B-1)^2}}{D \cdot E \cdot (B-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 0, 0, 5:
$$-\frac{B \cdot N_u \cdot \sqrt{E^2 \cdot (A-B)^2}}{E \cdot \sqrt{B^2 \cdot N_u^2} \cdot (A-B)}$$

1, 2, 0, 4, 5:
$$-\frac{B \cdot N_u \cdot \sqrt{D^2 \cdot E^2 \cdot (A-B)^2}}{D \cdot E \cdot \sqrt{B^2 \cdot N_u^2} \cdot (A-B)}$$

0, 0, 3, 0, 5: 0

0, 0, 3, 4, 5: 0

1, 0, 3, 0, 5:
$$-\frac{C \cdot N_u \cdot \sqrt{E^2 \cdot (A-1)^2}}{E \cdot (A-1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

1, 0, 3, 4, 5:
$$-\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot E^2 \cdot (A-1)^2}}{D \cdot E \cdot (A-1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

0, 2, 3, 0, 5:
$$\frac{B \cdot C \cdot N_u \cdot \sqrt{E^2 \cdot (B-1)^2}}{E \cdot (B-1) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$$

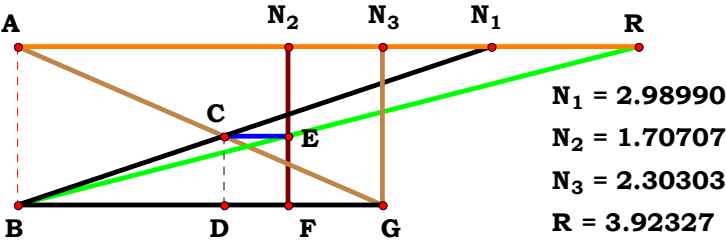
0, 2, 3, 4, 5:
$$\frac{B \cdot C \cdot N_u \cdot \sqrt{D^2 \cdot E^2 \cdot (B-1)^2}}{D \cdot E \cdot (B-1) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$$

1, 2, 3, 0, 5:
$$-\frac{B \cdot C \cdot N_u \cdot \sqrt{E^2 \cdot (A-B)^2}}{E \cdot (A-B) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$$

1, 2, 3, 4, 5:
$$\frac{B \cdot C \cdot N_u \cdot \sqrt{D^2 \cdot E^2 \cdot (A-B)^2}}{D \cdot E \cdot (B-A) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$$



1CST4R4



$N_1 = 2.98990$
 $N_2 = 1.70707$
 $N_3 = 2.30303$
 $R = 3.92327$

Unit. $AB := 1$ Given. $N_1 := 2.98990$ $N_2 := 1.70707$ $N_3 := 2.30303$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A + C)}{A \cdot B} = 3.923267$$

$$\text{Num} := \frac{N_u \cdot (A + C)}{\sqrt{[N_u \cdot (A + C)]^2}}$$

$$\text{Den} := \frac{A \cdot B}{\sqrt{(A \cdot B)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

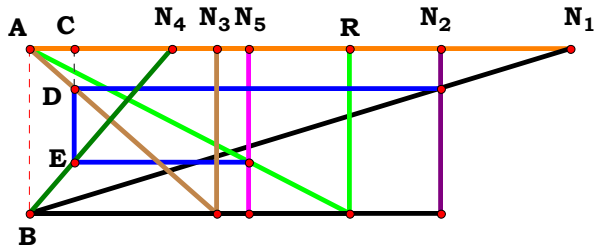
$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{A^2 \cdot B^2 \cdot (A + C)}}{A \cdot B \cdot \sqrt{N_u^2 \cdot (A + C)^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 2, 0:	$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$
1, 2, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{A^2 \cdot B^2}}{A \cdot B \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 0, 3:	$\frac{N_u \cdot (C + 1)}{\sqrt{N_u^2 \cdot (C + 1)^2}}$
1, 0, 3:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A + C)}{A \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$
0, 2, 3:	$\frac{N_u \cdot (C + 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (C + 1)^2}}$
1, 2, 3:	$\frac{N_u \cdot \sqrt{A^2 \cdot B^2} \cdot (A + C)}{A \cdot B \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$



$N_1 = 3.27120$
 $N_2 = 2.48665$
 $N_3 = 1.13537$
 $N_4 = 0.86181$
 $N_5 = 1.32695$
 $R = 1.93989$

$$\mathbf{N}_5 := 1.32695$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$

Descriptions.

$$\frac{\mathbf{B \cdot C \cdot N_u}}{\mathbf{E \cdot (A \cdot D + B \cdot C - B \cdot D)}} = \mathbf{1.939887}$$

$$\mathbf{Num} := \frac{\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})^2}}$$

$$\mathbf{Den} := \frac{\mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})}{\sqrt{[\mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

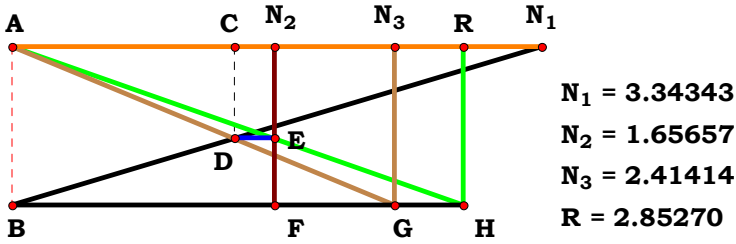
$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{E}^2 \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})^2}}{\mathbf{E} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{D})}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$
0, 2, 0, 0, 0:	$\frac{B \cdot N_u}{\sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{B^2 \cdot N_u^2}}$
0, 0, 3, 0, 0:	$\frac{N_u \cdot \sqrt{C^2}}{\sqrt{C^2 \cdot N_u^2}}$
1, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{(A + C - 1)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (A + C - 1)}}$
0, 2, 3, 0, 0:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{(B \cdot C - B + 1)^2}}{\sqrt{B^2 \cdot C^2 \cdot N_u^2 \cdot (B \cdot C - B + 1)}}$
1, 2, 3, 0, 0:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{(A - B + B \cdot C)^2}}{\sqrt{B^2 \cdot C^2 \cdot N_u^2 \cdot (A - B + B \cdot C)}}$

0, 0, 0, 4, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{(A \cdot D - D + 1)^2}}{\sqrt{N_u^2 \cdot (A \cdot D - D + 1)}}$
0, 2, 0, 4, 0:	$\frac{B \cdot N_u \cdot \sqrt{(B + D - B \cdot D)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (B + D - B \cdot D)}}$
1, 2, 0, 4, 0:	$\frac{B \cdot N_u \cdot \sqrt{(B + A \cdot D - B \cdot D)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (B + A \cdot D - B \cdot D)}}$
0, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{C^2}}{\sqrt{C^2 \cdot N_u^2}}$
1, 0, 3, 4, 0:	$\frac{C \cdot N_u \cdot \sqrt{(C - D + A \cdot D)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (C - D + A \cdot D)}}$
0, 2, 3, 4, 0:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{(D + B \cdot C - B \cdot D)^2}}{(D + B \cdot C - B \cdot D) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$
1, 2, 3, 4, 0:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{(A \cdot D + B \cdot C - B \cdot D)^2}}{\sqrt{B^2 \cdot C^2 \cdot N_u^2 \cdot (A \cdot D + B \cdot C - B \cdot D)}}$



Unit. $AB := 1$ Given. $N_1 := 3.34343$ $N_2 := 1.65657$ $N_3 := 2.41414$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A + C)}{B \cdot C} = 2.852704$$

$$Num := \frac{N_u \cdot (A + C)}{\sqrt{[N_u \cdot (A + C)]^2}}$$

$$Den := \frac{B \cdot C}{\sqrt{(B \cdot C)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

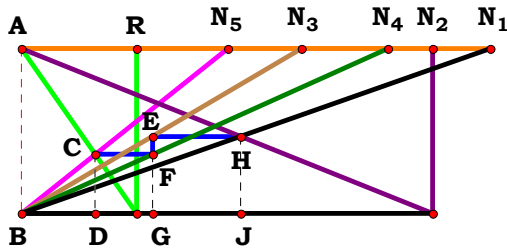
$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot C^2 \cdot (A + C)}}{B \cdot C \cdot \sqrt{N_u^2 \cdot (A + C)^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{N_u \cdot (A + 1)}{\sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 2, 0:	$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$
1, 2, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 0, 3:	$\frac{N_u \cdot (C + 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (C + 1)^2}}$
1, 0, 3:	$\frac{N_u \cdot \sqrt{C^2} \cdot (A + C)}{C \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$
0, 2, 3:	$\frac{N_u \cdot (C + 1) \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{N_u^2 \cdot (C + 1)^2}}$
1, 2, 3:	$\frac{N_u \cdot \sqrt{B^2 \cdot C^2} \cdot (A + C)}{B \cdot C \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$



N₁ = 2.83534
N₂ = 2.48665
N₃ = 1.69715
N₄ = 2.21782
N₅ = 1.24947
R = 0.69538

Unit. AB := 1 Given. N₁ := 2.83534 N₂ := 2.48665 N₃ := 1.69715 N₄ := 2.21782

N₅ := 1.24947

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot D \cdot N_u}{E \cdot (A \cdot C - A \cdot D + B \cdot C)} = 0.695376$$

$$Num := \frac{A \cdot D \cdot N_u}{\sqrt{(A \cdot D \cdot N_u)^2}}$$

$$Den := \frac{E \cdot (A \cdot C - A \cdot D + B \cdot C)}{\sqrt{[E \cdot (A \cdot C - A \cdot D + B \cdot C)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot D \cdot N_u \cdot \sqrt{E^2 \cdot (A \cdot C - A \cdot D + B \cdot C)^2}}{E \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2 \cdot (A \cdot C - A \cdot D + B \cdot C)}} = 0$$



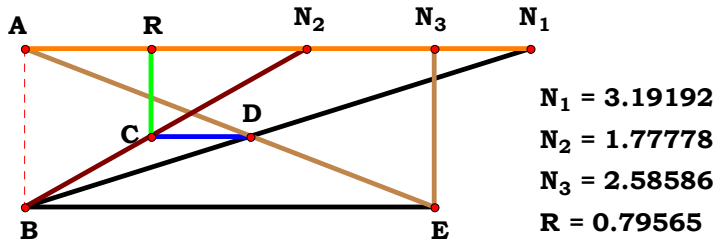
For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$-\frac{D \cdot N_u \cdot \sqrt{(D-2)^2}}{(D-2) \cdot \sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 0, 0:	$\frac{A \cdot N_u}{\sqrt{A^2 \cdot N_u^2}}$	1, 0, 0, 4, 0:	$\frac{A \cdot D \cdot N_u \cdot \sqrt{(A-A \cdot D+1)^2}}{\sqrt{A^2 \cdot D^2 \cdot N_u^2} \cdot (A-A \cdot D+1)}$
0, 2, 0, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$	0, 2, 0, 4, 0:	$\frac{D \cdot N_u \cdot \sqrt{(B-D+1)^2}}{\sqrt{D^2 \cdot N_u^2} \cdot (B-D+1)}$
1, 2, 0, 0, 0:	$\frac{A \cdot N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{A^2 \cdot N_u^2}}$	1, 2, 0, 4, 0:	$\frac{A \cdot D \cdot N_u \cdot \sqrt{(A+B-A \cdot D)^2}}{\sqrt{A^2 \cdot D^2 \cdot N_u^2} \cdot (A+B-A \cdot D)}$
0, 0, 3, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C-1)^2}}{\sqrt{N_u^2} \cdot (2 \cdot C-1)}$	0, 0, 3, 4, 0:	$-\frac{D \cdot N_u \cdot \sqrt{(D-2 \cdot C)^2}}{\sqrt{D^2 \cdot N_u^2} \cdot (D-2 \cdot C)}$
1, 0, 3, 0, 0:	$\frac{A \cdot N_u \cdot \sqrt{(C-A+A \cdot C)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (C-A+A \cdot C)}$	1, 0, 3, 4, 0:	$\frac{A \cdot D \cdot N_u \cdot \sqrt{(C+A \cdot C-A \cdot D)^2}}{(C+A \cdot C-A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2}}$
0, 2, 3, 0, 0:	$\frac{N_u \cdot \sqrt{(C+B \cdot C-1)^2}}{\sqrt{N_u^2} \cdot (C+B \cdot C-1)}$	0, 2, 3, 4, 0:	$\frac{D \cdot N_u \cdot \sqrt{(C-D+B \cdot C)^2}}{\sqrt{D^2 \cdot N_u^2} \cdot (C-D+B \cdot C)}$
1, 2, 3, 0, 0:	$\frac{A \cdot N_u \cdot \sqrt{(A \cdot C-A+B \cdot C)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (A \cdot C-A+B \cdot C)}$	1, 2, 3, 4, 0:	$\frac{A \cdot D \cdot N_u \cdot \sqrt{(A \cdot C-A \cdot D+B \cdot C)^2}}{\sqrt{A^2 \cdot D^2 \cdot N_u^2} \cdot (A \cdot C-A \cdot D+B \cdot C)}$



0, 0, 0, 0, 5:	$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 5:	$\frac{A \cdot N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{A^2 \cdot N_u^2}}$
0, 2, 0, 0, 5:	$\frac{N_u \cdot \sqrt{B^2 \cdot E^2}}{B \cdot E \cdot \sqrt{N_u^2}}$
1, 2, 0, 0, 5:	$\frac{A \cdot N_u \cdot \sqrt{B^2 \cdot E^2}}{B \cdot E \cdot \sqrt{A^2 \cdot N_u^2}}$
0, 0, 3, 0, 5:	$\frac{N_u \cdot \sqrt{E^2 \cdot (2 \cdot C - 1)^2}}{E \cdot \sqrt{N_u^2 \cdot (2 \cdot C - 1)}}$
1, 0, 3, 0, 5:	$\frac{A \cdot N_u \cdot \sqrt{E^2 \cdot (C - A + A \cdot C)^2}}{E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (C - A + A \cdot C)}}$
0, 2, 3, 0, 5:	$\frac{N_u \cdot \sqrt{E^2 \cdot (C + B \cdot C - 1)^2}}{E \cdot \sqrt{N_u^2 \cdot (C + B \cdot C - 1)}}$
1, 2, 3, 0, 5:	$\frac{A \cdot N_u \cdot \sqrt{E^2 \cdot (A \cdot C - A + B \cdot C)^2}}{E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A \cdot C - A + B \cdot C)}}$

0, 0, 0, 4, 5:	$\frac{D \cdot N_u \cdot \sqrt{E^2 \cdot (D - 2)^2}}{E \cdot (D - 2) \cdot \sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 4, 5:	$\frac{A \cdot D \cdot N_u \cdot \sqrt{E^2 \cdot (A - A \cdot D + 1)^2}}{E \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2} \cdot (A - A \cdot D + 1)}$
0, 2, 0, 4, 5:	$\frac{D \cdot N_u \cdot \sqrt{E^2 \cdot (B - D + 1)^2}}{E \cdot \sqrt{D^2 \cdot N_u^2} \cdot (B - D + 1)}$
1, 2, 0, 4, 5:	$\frac{A \cdot D \cdot N_u \cdot \sqrt{E^2 \cdot (A + B - A \cdot D)^2}}{E \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2} \cdot (A + B - A \cdot D)}$
0, 0, 3, 4, 5:	$\frac{D \cdot N_u \cdot \sqrt{E^2 \cdot (D - 2 \cdot C)^2}}{E \cdot \sqrt{D^2 \cdot N_u^2} \cdot (2 \cdot C - D)}$
1, 0, 3, 4, 5:	$\frac{A \cdot D \cdot N_u \cdot \sqrt{E^2 \cdot (C + A \cdot C - A \cdot D)^2}}{E \cdot (C + A \cdot C - A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2}}$
0, 2, 3, 4, 5:	$\frac{D \cdot N_u \cdot \sqrt{E^2 \cdot (C - D + B \cdot C)^2}}{E \cdot \sqrt{D^2 \cdot N_u^2} \cdot (C - D + B \cdot C)}$
1, 2, 3, 4, 5:	$\frac{A \cdot D \cdot N_u \cdot \sqrt{E^2 \cdot (A \cdot C - A \cdot D + B \cdot C)^2}}{E \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2} \cdot (A \cdot C - A \cdot D + B \cdot C)}$



Unit. $AB := 1$ Given. $N_1 := 3.19192$ $N_2 := 1.77778$ $N_3 := 2.58586$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{A \cdot N_u}{B \cdot (A + C)} = 0.79565$$

$$Num := \frac{A \cdot N_u}{\sqrt{(A \cdot N_u)^2}}$$

$$Den := \frac{B \cdot (A + C)}{\sqrt{[B \cdot (A + C)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

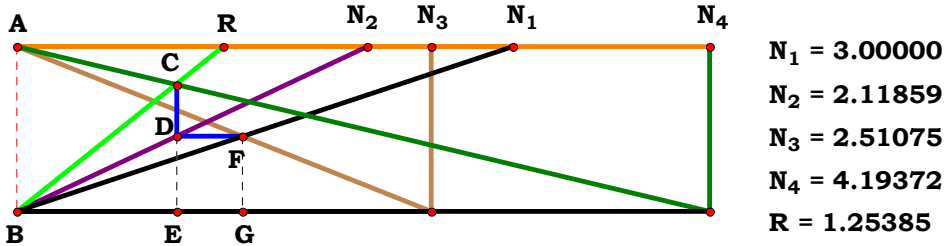
$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A \cdot N_u \cdot \sqrt{B^2 \cdot (A + C)^2}}{B \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A + C)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{A \cdot N_u \cdot \sqrt{(A+1)^2}}{(A+1) \cdot \sqrt{A^2 \cdot N_u^2}}$
0, 2, 0:	$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$
1, 2, 0:	$\frac{A \cdot N_u \cdot \sqrt{B^2 \cdot (A+1)^2}}{B \cdot (A+1) \cdot \sqrt{A^2 \cdot N_u^2}}$
0, 0, 3:	$\frac{N_u \cdot \sqrt{(C+1)^2}}{(C+1) \cdot \sqrt{N_u^2}}$
1, 0, 3:	$\frac{A \cdot N_u \cdot \sqrt{(A+C)^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A+C)}}$
0, 2, 3:	$\frac{N_u \cdot \sqrt{B^2 \cdot (C+1)^2}}{B \cdot (C+1) \cdot \sqrt{N_u^2}}$
1, 2, 3:	$\frac{A \cdot N_u \cdot \sqrt{B^2 \cdot (A+C)^2}}{B \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A+C)}}$



Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.11859$ $N_3 := 2.51075$ $N_4 := 4.19372$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$\frac{A \cdot N_u}{A \cdot B - A \cdot D + B \cdot C} = 1.253841$

$Num := \frac{A \cdot N_u}{\sqrt{(A \cdot N_u)^2}}$

$Den := \frac{A \cdot B - A \cdot D + B \cdot C}{\sqrt{(A \cdot B - A \cdot D + B \cdot C)^2}}$

$L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{A \cdot N_u \cdot \sqrt{(A \cdot B - A \cdot D + B \cdot C)^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C)}} = 0$

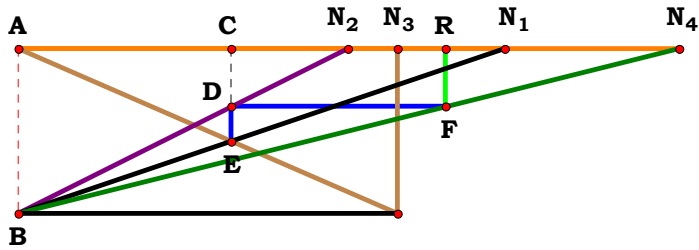


For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{(D - 2)^2}}{(D - 2) \cdot \sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{A \cdot N_u}{\sqrt{A^2 \cdot N_u^2}}$	1, 0, 0, 4:	$\frac{A \cdot N_u \cdot \sqrt{(A - A \cdot D + 1)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (A - A \cdot D + 1)}$
0, 2, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot B - 1)^2}}{\sqrt{N_u^2} \cdot (2 \cdot B - 1)}$	0, 2, 0, 4:	$\frac{N_u \cdot \sqrt{(D - 2 \cdot B)^2}}{\sqrt{N_u^2} \cdot (D - 2 \cdot B)}$
1, 2, 0, 0:	$\frac{A \cdot N_u \cdot \sqrt{(B - A + A \cdot B)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (B - A + A \cdot B)}$	1, 2, 0, 4:	$\frac{A \cdot N_u \cdot \sqrt{(B + A \cdot B - A \cdot D)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (B + A \cdot B - A \cdot D)}$
0, 0, 3, 0:	$\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot \sqrt{(C - D + 1)^2}}{\sqrt{N_u^2} \cdot (C - D + 1)}$
1, 0, 3, 0:	$\frac{A \cdot N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{A^2 \cdot N_u^2}}$	1, 0, 3, 4:	$\frac{A \cdot N_u \cdot \sqrt{(A + C - A \cdot D)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (A + C - A \cdot D)}$
0, 2, 3, 0:	$\frac{N_u \cdot \sqrt{(B + B \cdot C - 1)^2}}{\sqrt{N_u^2} \cdot (B + B \cdot C - 1)}$	0, 2, 3, 4:	$\frac{N_u \cdot \sqrt{(B - D + B \cdot C)^2}}{\sqrt{N_u^2} \cdot (B - D + B \cdot C)}$
1, 2, 3, 0:	$\frac{A \cdot N_u \cdot \sqrt{(A \cdot B - A + B \cdot C)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (A \cdot B - A + B \cdot C)}$	1, 2, 3, 4:	$\frac{A \cdot N_u \cdot \sqrt{(A \cdot B - A \cdot D + B \cdot C)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (A \cdot B - A \cdot D + B \cdot C)}$



1CST5R3



N₁ = 2.94189
N₂ = 1.99268
N₃ = 2.29767
N₄ = 4.00000
R = 2.58965

Unit. AB := 1 Given. N₁ := 2.94189 N₂ := 1.99268 N₃ := 2.29767 N₄ := 4

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$\frac{B \cdot N_u}{D \cdot (A + C)} = 2.589654$ Num := $\frac{B \cdot N_u}{\sqrt{(B \cdot N_u)^2}}$ Den := $\frac{D \cdot (A + C)}{\sqrt{[D \cdot (A + C)]^2}}$ L := $\frac{Num}{Den}$

Definitions.

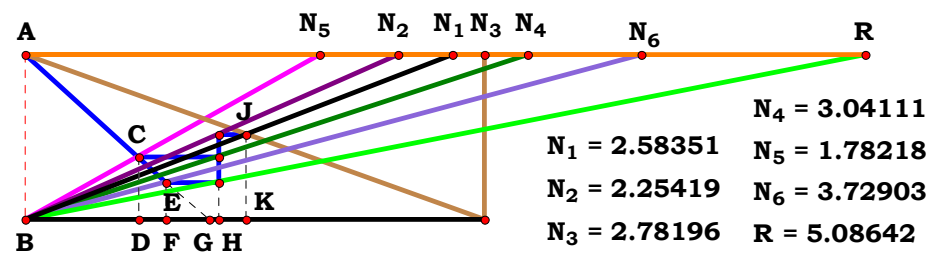
Num = 1 Den = 1 L = 1

$L - \frac{B \cdot N_u \cdot \sqrt{D^2 \cdot (A + C)^2}}{D \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A + C)}} = 0$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{\mathbf{N_u}}{\sqrt{\mathbf{N_u}^2}}$	0, 0, 0, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2}}{\mathbf{D} \cdot \sqrt{\mathbf{N_u}^2}}$
1, 0, 0, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{A} + 1)^2}}{(\mathbf{A} + 1) \cdot \sqrt{\mathbf{N_u}^2}}$	1, 0, 0, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A} + 1)^2}}{\mathbf{D} \cdot (\mathbf{A} + 1) \cdot \sqrt{\mathbf{N_u}^2}}$
0, 2, 0, 0:	$\frac{\mathbf{B} \cdot \mathbf{N_u}}{\sqrt{\mathbf{B}^2 \cdot \mathbf{N_u}^2}}$	0, 2, 0, 4:	$\frac{\mathbf{B} \cdot \mathbf{N_u} \cdot \sqrt{\mathbf{D}^2}}{\mathbf{D} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N_u}^2}}$
1, 2, 0, 0:	$\frac{\mathbf{B} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{A} + 1)^2}}{(\mathbf{A} + 1) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N_u}^2}}$	1, 2, 0, 4:	$\frac{\mathbf{B} \cdot \mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A} + 1)^2}}{\mathbf{D} \cdot (\mathbf{A} + 1) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N_u}^2}}$
0, 0, 3, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{C} + 1)^2}}{(\mathbf{C} + 1) \cdot \sqrt{\mathbf{N_u}^2}}$	0, 0, 3, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{C} + 1)^2}}{\mathbf{D} \cdot (\mathbf{C} + 1) \cdot \sqrt{\mathbf{N_u}^2}}$
1, 0, 3, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{A} + \mathbf{C})^2}}{\sqrt{\mathbf{N_u}^2} \cdot (\mathbf{A} + \mathbf{C})}$	1, 0, 3, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A} + \mathbf{C})^2}}{\mathbf{D} \cdot \sqrt{\mathbf{N_u}^2} \cdot (\mathbf{A} + \mathbf{C})}$
0, 2, 3, 0:	$\frac{\mathbf{B} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{C} + 1)^2}}{(\mathbf{C} + 1) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N_u}^2}}$	0, 2, 3, 4:	$\frac{\mathbf{B} \cdot \mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{C} + 1)^2}}{\mathbf{D} \cdot (\mathbf{C} + 1) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N_u}^2}}$
1, 2, 3, 0:	$\frac{\mathbf{B} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{A} + \mathbf{C})^2}}{\sqrt{\mathbf{B}^2 \cdot \mathbf{N_u}^2} \cdot (\mathbf{A} + \mathbf{C})}$	1, 2, 3, 4:	$\frac{\mathbf{B} \cdot \mathbf{N_u} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A} + \mathbf{C})^2}}{\mathbf{D} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N_u}^2} \cdot (\mathbf{A} + \mathbf{C})}$



Descriptions.

$$\frac{N_u \cdot [B \cdot E \cdot (A + C) - A \cdot D \cdot (E - F)]}{B \cdot D \cdot F \cdot (A + C)} = 5.086437$$

$$Num := \frac{N_u \cdot [B \cdot E \cdot (A + C) - A \cdot D \cdot (E - F)]}{\sqrt{[N_u \cdot [B \cdot E \cdot (A + C) - A \cdot D \cdot (E - F)]]^2}}$$

$$Den := \frac{B \cdot D \cdot F \cdot (A + C)}{\sqrt{[B \cdot D \cdot F \cdot (A + C)]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (A + C)^2 \cdot (A \cdot B \cdot E - A \cdot D \cdot E + B \cdot C \cdot E + A \cdot D \cdot F)}}{B \cdot D \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [B \cdot E \cdot (A + C) - A \cdot D \cdot (E - F)]^2}} = 0$$

$$Unit. \quad AB := 1 \quad Given. \quad N_1 := 2.58351 \quad N_2 := 2.25419 \quad N_3 := 2.78196 \quad N_4 := 3.04111$$

$$N_5 := 1.78218 \quad N_6 := 3.72903$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(A+1)^2}}{\sqrt{N_u^2 \cdot (A+1)^2}}$	1, 0, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot (A+1)^2}}{D \cdot \sqrt{N_u^2 \cdot (A+1)^2}}$
0, 2, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{\sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2}}{D \cdot \sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 0, 0:	$\frac{N_u \cdot (B+A \cdot B) \cdot \sqrt{B^2 \cdot (A+1)^2}}{B \cdot (A+1) \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A+1)^2}}$	1, 2, 0, 4, 0, 0:	$\frac{N_u \cdot (B+A \cdot B) \cdot \sqrt{B^2 \cdot D^2 \cdot (A+1)^2}}{B \cdot D \cdot (A+1) \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A+1)^2}}$
0, 0, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(C+1)^2}}{\sqrt{N_u^2 \cdot (C+1)^2}}$	0, 0, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot (C+1)^2}}{D \cdot \sqrt{N_u^2 \cdot (C+1)^2}}$
1, 0, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(A+C)^2}}{\sqrt{N_u^2 \cdot (A+C)^2}}$	1, 0, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot (A+C)^2}}{D \cdot \sqrt{N_u^2 \cdot (A+C)^2}}$
0, 2, 3, 0, 0, 0:	$\frac{N_u \cdot (B+B \cdot C) \cdot \sqrt{B^2 \cdot (C+1)^2}}{B \cdot (C+1) \cdot \sqrt{B^2 \cdot N_u^2 \cdot (C+1)^2}}$	0, 2, 3, 4, 0, 0:	$\frac{N_u \cdot (B+B \cdot C) \cdot \sqrt{B^2 \cdot D^2 \cdot (C+1)^2}}{B \cdot D \cdot (C+1) \cdot \sqrt{B^2 \cdot N_u^2 \cdot (C+1)^2}}$
1, 2, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot (A+C)^2 \cdot (A \cdot B+B \cdot C)}}{B \cdot (A+C) \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A+C)^2}}$	1, 2, 3, 4, 0, 0:	$\frac{N_u \cdot (A \cdot B+B \cdot C) \cdot \sqrt{B^2 \cdot D^2 \cdot (A+C)^2}}{B \cdot D \cdot (A+C) \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A+C)^2}}$

0, 0, 0, 0, 5, 0:	$\frac{N_u \cdot (E + 1)}{\sqrt{N_u^2 \cdot (E + 1)^2}}$
1, 0, 0, 0, 5, 0:	$\frac{N_u \cdot (A + E) \cdot \sqrt{(A + 1)^2}}{(A + 1) \cdot \sqrt{N_u^2 \cdot [A \cdot (E - 1) - E \cdot (A + 1)]^2}}$
0, 2, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (2 \cdot B \cdot E - E + 1)}{B \cdot \sqrt{N_u^2 \cdot (2 \cdot B \cdot E - E + 1)^2}}$
1, 2, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (A + 1)^2 \cdot (A - A \cdot E + B \cdot E + A \cdot B \cdot E)}{B \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [A \cdot (E - 1) - B \cdot E \cdot (A + 1)]^2}}$
0, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(C + 1)^2} \cdot (C \cdot E + 1)}{(C + 1) \cdot \sqrt{N_u^2 \cdot [E \cdot (C + 1) - E + 1]^2}}$
1, 0, 3, 0, 5, 0:	$\frac{N_u \cdot (A + C \cdot E) \cdot \sqrt{(A + C)^2}}{(A + C) \cdot \sqrt{N_u^2 \cdot [E \cdot (A + C) - A \cdot (E - 1)]^2}}$
0, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (C + 1)^2 \cdot (B \cdot E - E + B \cdot C \cdot E + 1)}{B \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [B \cdot E \cdot (C + 1) - E + 1]^2}}$
1, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (A + C)^2 \cdot (A - A \cdot E + A \cdot B \cdot E + B \cdot C \cdot E)}{B \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [A \cdot (E - 1) - B \cdot E \cdot (A + C)]^2}}$

0, 0, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (D + 2 \cdot E - D \cdot E)}{D \cdot \sqrt{N_u^2 \cdot [2 \cdot E - D \cdot (E - 1)]^2}}$
1, 0, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (A + 1)^2 \cdot (E + A \cdot D + A \cdot E - A \cdot D \cdot E)}{D \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [E \cdot (A + 1) - A \cdot D \cdot (E - 1)]^2}}$
0, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot D^2 \cdot (D + 2 \cdot B \cdot E - D \cdot E)}{B \cdot D \cdot \sqrt{N_u^2 \cdot [D \cdot (E - 1) - 2 \cdot B \cdot E]^2}}$
1, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot D^2 \cdot (A + 1)^2 \cdot (A \cdot D + B \cdot E + A \cdot B \cdot E - A \cdot D \cdot E)}{B \cdot D \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [B \cdot E \cdot (A + 1) - A \cdot D \cdot (E - 1)]^2}}$
0, 0, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (C + 1)^2 \cdot (D + E + C \cdot E - D \cdot E)}{D \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [E \cdot (C + 1) - D \cdot (E - 1)]^2}}$
1, 0, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (A + C)^2 \cdot (A \cdot D + A \cdot E + C \cdot E - A \cdot D \cdot E)}{D \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [E \cdot (A + C) - A \cdot D \cdot (E - 1)]^2}}$
0, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot D^2 \cdot (C + 1)^2 \cdot (D + B \cdot E - D \cdot E + B \cdot C \cdot E)}{B \cdot D \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [D \cdot (E - 1) - B \cdot E \cdot (C + 1)]^2}}$
1, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot D^2 \cdot (A + C)^2 \cdot (A \cdot D + A \cdot B \cdot E - A \cdot D \cdot E + B \cdot C \cdot E)}{B \cdot D \cdot \sqrt{N_u^2 \cdot [A \cdot D \cdot (E - 1) - B \cdot E \cdot (A + C)]^2} \cdot (A + C)}$

$$0, 0, 0, 0, 0, 6: \frac{N_u \cdot (F + 1) \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2 \cdot (F + 1)^2}}$$

$$1, 0, 0, 0, 0, 6: \frac{N_u \cdot \sqrt{F^2 \cdot (A + 1)^2} \cdot (A \cdot F + 1)}{F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [A + A \cdot (F - 1) + 1]^2}}$$

$$0, 2, 0, 0, 0, 6: \frac{N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (2 \cdot B + F - 1)}{B \cdot F \cdot \sqrt{N_u^2 \cdot (2 \cdot B + F - 1)^2}}$$

$$1, 2, 0, 0, 0, 6: \frac{N_u \cdot \sqrt{B^2 \cdot F^2 \cdot (A + 1)^2} \cdot (B - A + A \cdot B + A \cdot F)}{B \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [B \cdot (A + 1) + A \cdot (F - 1)]^2}}$$

$$0, 0, 3, 0, 0, 6: \frac{N_u \cdot (C + F) \cdot \sqrt{F^2 \cdot (C + 1)^2}}{F \cdot \sqrt{N_u^2 \cdot (C + F)^2 \cdot (C + 1)}}$$

$$1, 0, 3, 0, 0, 6: \frac{N_u \cdot \sqrt{F^2 \cdot (A + C)^2} \cdot (C + A \cdot F)}{F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [A + C + A \cdot (F - 1)]^2}}$$

$$0, 2, 3, 0, 0, 6: \frac{N_u \cdot \sqrt{B^2 \cdot F^2 \cdot (C + 1)^2} \cdot (B + F + B \cdot C - 1)}{B \cdot F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [F + B \cdot (C + 1) - 1]^2}}$$

$$1, 2, 3, 0, 0, 6: \frac{N_u \cdot \sqrt{B^2 \cdot F^2 \cdot (A + C)^2} \cdot (A \cdot B - A + B \cdot C + A \cdot F)}{B \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [B \cdot (A + C) + A \cdot (F - 1)]^2}}$$

$$0, 0, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{D^2 \cdot F^2} \cdot (D \cdot F - D + 2)}{D \cdot F \cdot \sqrt{N_u^2 \cdot [D \cdot (F - 1) + 2]^2}}$$

$$1, 0, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (A + 1)^2} \cdot (A - A \cdot D + A \cdot D \cdot F + 1)}{D \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [A + A \cdot D \cdot (F - 1) + 1]^2}}$$

$$0, 2, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2} \cdot (2 \cdot B - D + D \cdot F)}{B \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot [2 \cdot B + D \cdot (F - 1)]^2}}$$

$$1, 2, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (A + 1)^2} \cdot (B + A \cdot B - A \cdot D + A \cdot D \cdot F)}{B \cdot D \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [B \cdot (A + 1) + A \cdot D \cdot (F - 1)]^2}}$$

$$0, 0, 3, 4, 0, 6: \frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (C + 1)^2} \cdot (C - D + D \cdot F + 1)}{D \cdot F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [C + D \cdot (F - 1) + 1]^2}}$$

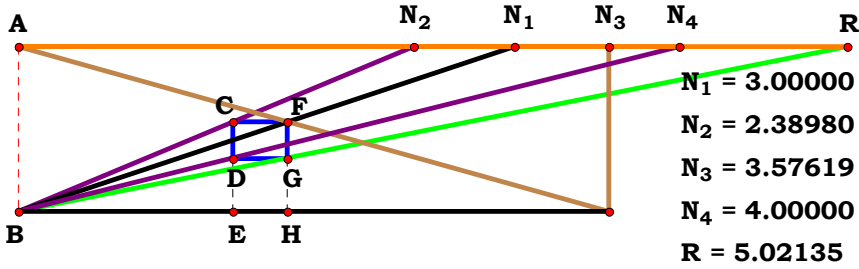
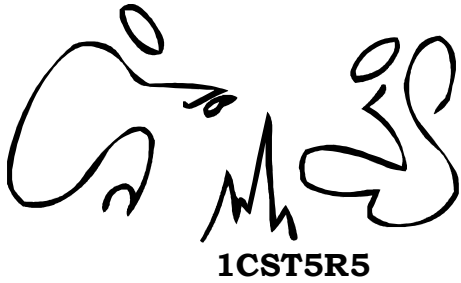
$$1, 0, 3, 4, 0, 6: \frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (A + C)^2} \cdot (A + C - A \cdot D + A \cdot D \cdot F)}{D \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [A + C + A \cdot D \cdot (F - 1)]^2}}$$

$$0, 2, 3, 4, 0, 6: \frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (C + 1)^2} \cdot (B - D + B \cdot C + D \cdot F)}{B \cdot D \cdot F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [B \cdot (C + 1) + D \cdot (F - 1)]^2}}$$

$$1, 2, 3, 4, 0, 6: \frac{N_u \cdot (A \cdot B - A \cdot D + B \cdot C + A \cdot D \cdot F) \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (A + C)^2}}{B \cdot D \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [B \cdot (A + C) + A \cdot D \cdot (F - 1)]^2}}$$

0, 0, 0, 0, 5, 6:	$\frac{N_u \cdot \sqrt{F^2 \cdot (E + F)}}{F \cdot \sqrt{N_u^2 \cdot (E + F)^2}}$
1, 0, 0, 0, 5, 6:	$\frac{N_u \cdot (E + A \cdot F) \cdot \sqrt{F^2 \cdot (A + 1)^2}}{F \cdot \sqrt{N_u^2 \cdot [A \cdot (E - F) - E \cdot (A + 1)]^2 \cdot (A + 1)}}$
0, 2, 0, 0, 5, 6:	$\frac{N_u \cdot \sqrt{B^2 \cdot F^2 \cdot (F - E + 2 \cdot B \cdot E)}}{B \cdot F \cdot \sqrt{N_u^2 \cdot (F - E + 2 \cdot B \cdot E)^2}}$
1, 2, 0, 0, 5, 6:	$\frac{N_u \cdot \sqrt{B^2 \cdot F^2 \cdot (A + 1)^2 \cdot (A \cdot F - A \cdot E + B \cdot E + A \cdot B \cdot E)}}{B \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [A \cdot (E - F) - B \cdot E \cdot (A + 1)]^2}}$
0, 0, 3, 0, 5, 6:	$\frac{N_u \cdot (F + C \cdot E) \cdot \sqrt{F^2 \cdot (C + 1)^2}}{F \cdot \sqrt{N_u^2 \cdot [F - E + E \cdot (C + 1)]^2 \cdot (C + 1)}}$
1, 0, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{F^2 \cdot (A + C)^2 \cdot (A \cdot F + C \cdot E)}}{F \cdot \sqrt{N_u^2 \cdot [E \cdot (A + C) - A \cdot (E - F)]^2 \cdot (A + C)}}$
0, 2, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{B^2 \cdot F^2 \cdot (C + 1)^2 \cdot (F - E + B \cdot E + B \cdot C \cdot E)}}{B \cdot F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [F - E + B \cdot E \cdot (C + 1)]^2}}$
1, 2, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{B^2 \cdot F^2 \cdot (A + C)^2 \cdot (A \cdot F - A \cdot E + A \cdot B \cdot E + B \cdot C \cdot E)}}{B \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [A \cdot (E - F) - B \cdot E \cdot (A + C)]^2}}$

0, 0, 0, 4, 5, 6:	$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (2 \cdot E - D \cdot E + D \cdot F)}}{D \cdot F \cdot \sqrt{N_u^2 \cdot [2 \cdot E - D \cdot (E - F)]^2}}$
1, 0, 0, 4, 5, 6:	$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (A + 1)^2 \cdot (E + A \cdot E - A \cdot D \cdot E + A \cdot D \cdot F)}}{D \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [E \cdot (A + 1) - A \cdot D \cdot (E - F)]^2}}$
0, 2, 0, 4, 5, 6:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (2 \cdot B \cdot E - D \cdot E + D \cdot F)}}{B \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot [D \cdot (E - F) - 2 \cdot B \cdot E]^2}}$
1, 2, 0, 4, 5, 6:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (A + 1)^2 \cdot (B \cdot E + A \cdot B \cdot E - A \cdot D \cdot E + A \cdot D \cdot F)}}{B \cdot D \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [B \cdot E \cdot (A + 1) - A \cdot D \cdot (E - F)]^2}}$
0, 0, 3, 4, 5, 6:	$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (C + 1)^2 \cdot (E + C \cdot E - D \cdot E + D \cdot F)}}{D \cdot F \cdot \sqrt{N_u^2 \cdot [D \cdot (E - F) - E \cdot (C + 1)]^2 \cdot (C + 1)}}$
1, 0, 3, 4, 5, 6:	$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (A + C)^2 \cdot (A \cdot E + C \cdot E - A \cdot D \cdot E + A \cdot D \cdot F)}}{D \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [E \cdot (A + C) - A \cdot D \cdot (E - F)]^2}}$
0, 2, 3, 4, 5, 6:	$\frac{N_u \cdot (B \cdot E - D \cdot E + D \cdot F + B \cdot C \cdot E) \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (C + 1)^2}}{B \cdot D \cdot F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [D \cdot (E - F) - B \cdot E \cdot (C + 1)]^2}}$
1, 2, 3, 4, 5, 6:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (A + C)^2 \cdot (A \cdot B \cdot E - A \cdot D \cdot E + B \cdot C \cdot E + A \cdot D \cdot F)}}{B \cdot D \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [B \cdot E \cdot (A + C) - A \cdot D \cdot (E - F)]^2}}$



Descriptions.

$$\frac{B \cdot N_u}{A \cdot D} = 5.021341$$

$$\text{Num} := \frac{B \cdot N_u}{\sqrt{(B \cdot N_u)^2}}$$

$$\text{Den} := \frac{A \cdot D}{\sqrt{(A \cdot D)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1$$

$$\text{Den} = 1$$

$$L = 1$$

$$L - \frac{B \cdot N_u \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{B^2 \cdot N_u^2}} = 0$$

$$\text{Unit. } AB := 1$$

$$\text{Given. } N_1 := 3$$

$$N_2 := 2.38980$$

$$N_3 := 3.57619$$

$$N_4 := 4$$

$$N_u := 3$$

$$A := \frac{N_u}{N_1}$$

$$B := \frac{N_u}{N_2}$$

$$C := \frac{N_u}{N_3}$$

$$D := \frac{N_u}{N_4}$$

$$\text{An invisible Variable.}$$

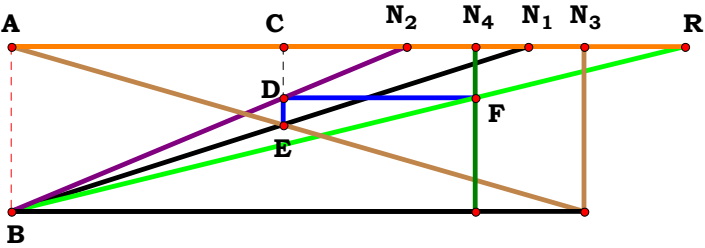


For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{N_u^2}}$
0, 2, 0, 0:	$\frac{B \cdot N_u}{\sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4:	$\frac{B \cdot N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{B^2 \cdot N_u^2}}$	1, 2, 0, 4:	$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{B^2 \cdot N_u^2}}$
0, 0, 3, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 3, 0:	$\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$	1, 0, 3, 4:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{N_u^2}}$
0, 2, 3, 0:	$\frac{B \cdot N_u}{\sqrt{B^2 \cdot N_u^2}}$	0, 2, 3, 4:	$\frac{B \cdot N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{B^2 \cdot N_u^2}}$
1, 2, 3, 0:	$\frac{B \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{B^2 \cdot N_u^2}}$	1, 2, 3, 4:	$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{B^2 \cdot N_u^2}}$



1CST5R6



N₁ = 3.12592
N₂ = 2.38980
N₃ = 3.46965
N₄ = 2.80865
R = 4.08176

Unit. AB := 1 Given. N₁ := 3.12592 N₂ := 2.38980 N₃ := 3.46965 N₄ := 2.80865

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$\frac{N_u \cdot (A + C)}{B \cdot D} = 4.081765$ Num := $\frac{N_u \cdot (A + C)}{\sqrt{[N_u \cdot (A + C)]^2}}$ Den := $\frac{B \cdot D}{\sqrt{(B \cdot D)^2}}$ L := $\frac{\text{Num}}{\text{Den}}$

Definitions.

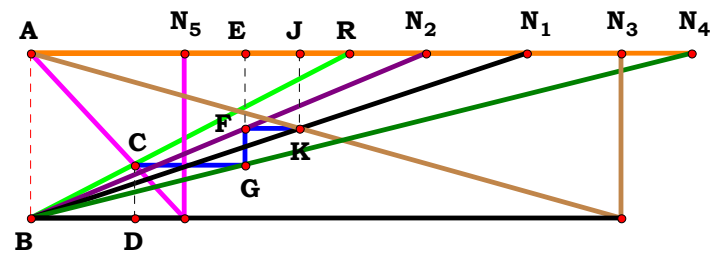
Num = 1 Den = 1 L = 1

$L - \frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot (A + C)}}{B \cdot D \cdot \sqrt{N_u^2 \cdot (A + C)^2}} = 0$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot (A + 1)}{\sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 2, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$	0, 2, 0, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2}}{B \cdot D \cdot \sqrt{N_u^2}}$
1, 2, 0, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 2, 0, 4:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{B^2 \cdot D^2}}{B \cdot D \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 0, 3, 0:	$\frac{N_u \cdot (C + 1)}{\sqrt{N_u^2 \cdot (C + 1)^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot (C + 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (C + 1)^2}}$
1, 0, 3, 0:	$\frac{N_u \cdot (A + C)}{\sqrt{N_u^2 \cdot (A + C)^2}}$	1, 0, 3, 4:	$\frac{N_u \cdot \sqrt{D^2} \cdot (A + C)}{D \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$
0, 2, 3, 0:	$\frac{N_u \cdot (C + 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (C + 1)^2}}$	0, 2, 3, 4:	$\frac{N_u \cdot (C + 1) \cdot \sqrt{B^2 \cdot D^2}}{B \cdot D \cdot \sqrt{N_u^2 \cdot (C + 1)^2}}$
1, 2, 3, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (A + C)}{B \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$	1, 2, 3, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (A + C)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$



N₁ = 3.00000
N₂ = 2.38980
N₃ = 3.57619
N₄ = 4.00000
N₅ = 0.92984
R = 1.93209

Unit. AB := 1 Given. N₁ := 3 N₂ := 2.38980 N₃ := 3.57619 N₄ := 4
N₅ := .92984

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot E} = 1.932099$$

$$Num := \frac{N_u \cdot (A \cdot B - A \cdot D + B \cdot C)}{\sqrt{[N_u \cdot (A \cdot B - A \cdot D + B \cdot C)]^2}}$$

$$Den := \frac{A \cdot D \cdot E}{\sqrt{(A \cdot D \cdot E)^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\frac{Num}{Den} = 1$$

$$L - \frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2} \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C)^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$-\frac{N_u \cdot (D - 2) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (D - 2)^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$	1, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A - A \cdot D + 1)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A - A \cdot D + 1)^2}}$
0, 2, 0, 0, 0:	$\frac{N_u \cdot (2 \cdot B - 1)}{\sqrt{N_u^2 \cdot (2 \cdot B - 1)^2}}$	0, 2, 0, 4, 0:	$-\frac{N_u \cdot \sqrt{D^2} \cdot (D - 2 \cdot B)}{D \cdot \sqrt{N_u^2 \cdot (D - 2 \cdot B)^2}}$
1, 2, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (B - A + A \cdot B)}{A \cdot \sqrt{N_u^2 \cdot (B - A + A \cdot B)^2}}$	1, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (B + A \cdot B - A \cdot D)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (B + A \cdot B - A \cdot D)^2}}$
0, 0, 3, 0, 0:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (C - D + 1)}{D \cdot \sqrt{N_u^2 \cdot (C - D + 1)^2}}$
1, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{C^2 \cdot N_u^2}}$	1, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A + C - A \cdot D)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A + C - A \cdot D)^2}}$
0, 2, 3, 0, 0:	$\frac{N_u \cdot (B + B \cdot C - 1)}{\sqrt{N_u^2 \cdot (B + B \cdot C - 1)^2}}$	0, 2, 3, 4, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (B - D + B \cdot C)}{D \cdot \sqrt{N_u^2 \cdot (B - D + B \cdot C)^2}}$
1, 2, 3, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A \cdot B - A + B \cdot C)}{A \cdot \sqrt{N_u^2 \cdot (A \cdot B - A + B \cdot C)^2}}$	1, 2, 3, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C)^2}}$



0, 0, 0, 0, 5:
$$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 5:
$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{N_u^2}}$$

0, 2, 0, 0, 5:
$$\frac{N_u \cdot \sqrt{E^2} \cdot (2 \cdot B - 1)}{E \cdot \sqrt{N_u^2 \cdot (2 \cdot B - 1)^2}}$$

1, 2, 0, 0, 5:
$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (B - A + A \cdot B)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (B - A + A \cdot B)^2}}$$

0, 0, 3, 0, 5:
$$\frac{C \cdot N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{C^2 \cdot N_u^2}}$$

1, 0, 3, 0, 5:
$$\frac{C \cdot N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{C^2 \cdot N_u^2}}$$

0, 2, 3, 0, 5:
$$\frac{N_u \cdot \sqrt{E^2} \cdot (B + B \cdot C - 1)}{E \cdot \sqrt{N_u^2 \cdot (B + B \cdot C - 1)^2}}$$

1, 2, 3, 0, 5:
$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A \cdot B - A + B \cdot C)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A \cdot B - A + B \cdot C)^2}}$$

0, 0, 0, 4, 5:
$$\frac{N_u \cdot (D - 2) \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{N_u^2 \cdot (D - 2)^2}}$$

1, 0, 0, 4, 5:
$$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2} \cdot (A - A \cdot D + 1)}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A - A \cdot D + 1)^2}}$$

0, 2, 0, 4, 5:
$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (D - 2 \cdot B)}{D \cdot E \cdot \sqrt{N_u^2 \cdot (D - 2 \cdot B)^2}}$$

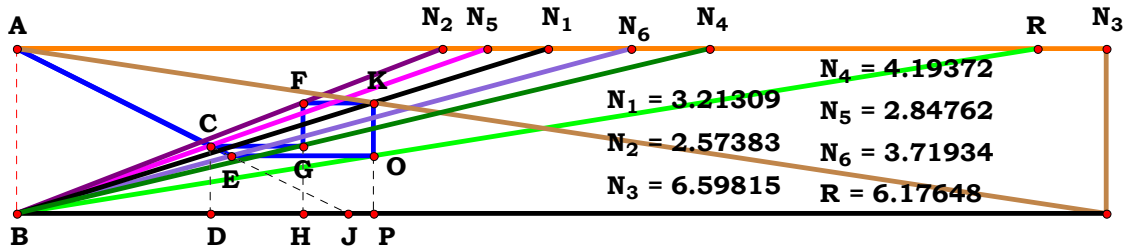
1, 2, 0, 4, 5:
$$\frac{N_u \cdot (B + A \cdot B - A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (B + A \cdot B - A \cdot D)^2}}$$

0, 0, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (C - D + 1)}{D \cdot E \cdot \sqrt{N_u^2 \cdot (C - D + 1)^2}}$$

1, 0, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2} \cdot (A + C - A \cdot D)}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A + C - A \cdot D)^2}}$$

0, 2, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (B - D + B \cdot C)}{D \cdot E \cdot \sqrt{N_u^2 \cdot (B - D + B \cdot C)^2}}$$

1, 2, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2} \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C)^2}}$$



Unit.

AB := 1

Given.

N₁ := 3.21309

N₂ := 2.57383

N₃ := 6.59815

N₄ := 4.19372

N₅ := 2.84762

N₆ := 3.71934

N_u := 3

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

E := $\frac{N_u}{N_5}$

F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u \cdot [A \cdot E \cdot (B - D) + B \cdot C \cdot E + A \cdot D \cdot F]}{A \cdot D \cdot F \cdot (A + C)} = 6.176477$$

Num :=
$$\frac{N_u \cdot [A \cdot E \cdot (B - D) + B \cdot C \cdot E + A \cdot D \cdot F]}{\sqrt{\left[N_u \cdot [A \cdot E \cdot (B - D) + B \cdot C \cdot E + A \cdot D \cdot F]\right]^2}}$$

Den :=
$$\frac{A \cdot D \cdot F \cdot (A + C)}{\sqrt{\left[A \cdot D \cdot F \cdot (A + C)\right]^2}}$$

L :=
$$\frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1

Den = 1

L = 1

L -
$$\frac{N_u \cdot (A \cdot B \cdot E - A \cdot D \cdot E + B \cdot C \cdot E + A \cdot D \cdot F) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A + C)^2}}{A \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot [B \cdot C \cdot E + A \cdot D \cdot F + A \cdot E \cdot (B - D)]^2 \cdot (A + C)}} = 0$$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot (A+1)^2}}{A \cdot \sqrt{N_u^2 \cdot (A+1)^2}}$
0, 2, 0, 0, 0, 0:	$\frac{B \cdot N_u}{\sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 0, 0:	$\frac{N_u \cdot (B + A \cdot B) \cdot \sqrt{A^2 \cdot (A+1)^2}}{A \cdot (A+1) \cdot \sqrt{N_u^2 \cdot [A + B + A \cdot (B-1)]^2}}$
0, 0, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(C+1)^2}}{\sqrt{N_u^2 \cdot (C+1)^2}}$
1, 0, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot (A+C)^2}}{A \cdot \sqrt{N_u^2 \cdot (A+C)^2}}$
0, 2, 3, 0, 0, 0:	$\frac{N_u \cdot (B + B \cdot C) \cdot \sqrt{(C+1)^2}}{(C+1) \cdot \sqrt{N_u^2 \cdot (B + B \cdot C)^2}}$
1, 2, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot (A+C)^2} \cdot (A \cdot B + B \cdot C)}{A \cdot \sqrt{N_u^2 \cdot [A + B \cdot C + A \cdot (B-1)]^2} \cdot (A+C)}$

0, 0, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot (A+1)^2}}{A \cdot D \cdot \sqrt{N_u^2 \cdot [A \cdot D - A \cdot (D-1) + 1]^2}}$
0, 2, 0, 4, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 4, 0, 0:	$\frac{N_u \cdot (B + A \cdot B) \cdot \sqrt{A^2 \cdot D^2 \cdot (A+1)^2}}{A \cdot D \cdot (A+1) \cdot \sqrt{N_u^2 \cdot [B + A \cdot D + A \cdot (B-D)]^2}}$
0, 0, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot (C+1)^2}}{D \cdot \sqrt{N_u^2 \cdot (C+1)^2}}$
1, 0, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot (A+C)^2}}{A \cdot D \cdot \sqrt{N_u^2 \cdot [C + A \cdot D - A \cdot (D-1)]^2}}$
0, 2, 3, 4, 0, 0:	$\frac{N_u \cdot (B + B \cdot C) \cdot \sqrt{D^2 \cdot (C+1)^2}}{D \cdot (C+1) \cdot \sqrt{N_u^2 \cdot (B + B \cdot C)^2}}$
1, 2, 3, 4, 0, 0:	$\frac{N_u \cdot (A \cdot B + B \cdot C) \cdot \sqrt{A^2 \cdot D^2 \cdot (A+C)^2}}{A \cdot D \cdot (A+C) \cdot \sqrt{N_u^2 \cdot [A \cdot D + B \cdot C + A \cdot (B-D)]^2}}$

0, 0, 0, 0, 5, 0:	$\frac{N_u \cdot (E + 1)}{\sqrt{N_u^2 \cdot (E + 1)^2}}$
1, 0, 0, 0, 5, 0:	$\frac{N_u \cdot (A + E) \cdot \sqrt{A^2 \cdot (A + 1)^2}}{A \cdot \sqrt{N_u^2 \cdot (A + E)^2 \cdot (A + 1)}}$
0, 2, 0, 0, 5, 0:	$\frac{N_u \cdot (2 \cdot B \cdot E - E + 1)}{\sqrt{N_u^2 \cdot [B \cdot E + E \cdot (B - 1) + 1]^2}}$
1, 2, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot (A + 1)^2} \cdot (A - A \cdot E + B \cdot E + A \cdot B \cdot E)}{A \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [A + B \cdot E + A \cdot E \cdot (B - 1)]^2}}$
0, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(C + 1)^2} \cdot (C \cdot E + 1)}{(C + 1) \cdot \sqrt{N_u^2 \cdot (C \cdot E + 1)^2}}$
1, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot (A + C)^2} \cdot (A + C \cdot E)}{A \cdot (A + C) \cdot \sqrt{N_u^2 \cdot (A + C \cdot E)^2}}$
0, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(C + 1)^2} \cdot (B \cdot E - E + B \cdot C \cdot E + 1)}{(C + 1) \cdot \sqrt{N_u^2 \cdot [E \cdot (B - 1) + B \cdot C \cdot E + 1]^2}}$
1, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot (A + C)^2} \cdot (A - A \cdot E + A \cdot B \cdot E + B \cdot C \cdot E)}{A \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [A + A \cdot E \cdot (B - 1) + B \cdot C \cdot E]^2}}$

0, 0, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (D + 2 \cdot E - D \cdot E)}{D \cdot \sqrt{N_u^2 \cdot [D + E - E \cdot (D - 1)]^2}}$
1, 0, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot (A + 1)^2} \cdot (E + A \cdot D + A \cdot E - A \cdot D \cdot E)}{A \cdot D \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [E + A \cdot D - A \cdot E \cdot (D - 1)]^2}}$
0, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (D + 2 \cdot B \cdot E - D \cdot E)}{D \cdot \sqrt{N_u^2 \cdot [D + B \cdot E + E \cdot (B - D)]^2}}$
1, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot (A + 1)^2} \cdot (A \cdot D + B \cdot E + A \cdot B \cdot E - A \cdot D \cdot E)}{A \cdot D \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [A \cdot D + B \cdot E + A \cdot E \cdot (B - D)]^2}}$
0, 0, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot (C + 1)^2} \cdot (D + E + C \cdot E - D \cdot E)}{D \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [D + C \cdot E - E \cdot (D - 1)]^2}}$
1, 0, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot (A + C)^2} \cdot (A \cdot D + A \cdot E + C \cdot E - A \cdot D \cdot E)}{A \cdot D \cdot \sqrt{N_u^2 \cdot [A \cdot D + C \cdot E - A \cdot E \cdot (D - 1)]^2} \cdot (A + C)}$
0, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot (C + 1)^2} \cdot (D + B \cdot E - D \cdot E + B \cdot C \cdot E)}{D \cdot \sqrt{N_u^2 \cdot [D + E \cdot (B - D) + B \cdot C \cdot E]^2} \cdot (C + 1)}$
1, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot (A + C)^2} \cdot (A \cdot D + A \cdot B \cdot E - A \cdot D \cdot E + B \cdot C \cdot E)}{A \cdot D \cdot \sqrt{N_u^2 \cdot [A \cdot D + B \cdot C \cdot E + A \cdot E \cdot (B - D)]^2} \cdot (A + C)}$

$$0, 0, 0, 0, 0, 6: \frac{N_u \cdot (F + 1) \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2 \cdot (F + 1)^2}}$$

$$1, 0, 0, 0, 0, 6: \frac{N_u \cdot (A \cdot F + 1) \cdot \sqrt{A^2 \cdot F^2 \cdot (A + 1)^2}}{A \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot (A \cdot F + 1)^2}}$$

$$0, 2, 0, 0, 0, 6: \frac{N_u \cdot \sqrt{F^2} \cdot (2 \cdot B + F - 1)}{F \cdot \sqrt{N_u^2 \cdot (2 \cdot B + F - 1)^2}}$$

$$1, 2, 0, 0, 0, 6: \frac{N_u \cdot \sqrt{A^2 \cdot F^2 \cdot (A + 1)^2} \cdot (B - A + A \cdot B + A \cdot F)}{A \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [B + A \cdot F + A \cdot (B - 1)]^2}}$$

$$0, 0, 3, 0, 0, 6: \frac{N_u \cdot (C + F) \cdot \sqrt{F^2 \cdot (C + 1)^2}}{F \cdot \sqrt{N_u^2 \cdot (C + F)^2 \cdot (C + 1)}}$$

$$1, 0, 3, 0, 0, 6: \frac{N_u \cdot (C + A \cdot F) \cdot \sqrt{A^2 \cdot F^2 \cdot (A + C)^2}}{A \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot (C + A \cdot F)^2}}$$

$$0, 2, 3, 0, 0, 6: \frac{N_u \cdot \sqrt{F^2 \cdot (C + 1)^2} \cdot (B + F + B \cdot C - 1)}{F \cdot \sqrt{N_u^2 \cdot (B + F + B \cdot C - 1)^2 \cdot (C + 1)}}$$

$$1, 2, 3, 0, 0, 6: \frac{N_u \cdot \sqrt{A^2 \cdot F^2 \cdot (A + C)^2} \cdot (A \cdot B - A + B \cdot C + A \cdot F)}{A \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [B \cdot C + A \cdot F + A \cdot (B - 1)]^2}}$$

$$0, 0, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{D^2 \cdot F^2} \cdot (D \cdot F - D + 2)}{D \cdot F \cdot \sqrt{N_u^2 \cdot (D \cdot F - D + 2)^2}}$$

$$1, 0, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A + 1)^2} \cdot (A - A \cdot D + A \cdot D \cdot F + 1)}{A \cdot D \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [A \cdot D \cdot F - A \cdot (D - 1) + 1]^2}}$$

$$0, 2, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{D^2 \cdot F^2} \cdot (2 \cdot B - D + D \cdot F)}{D \cdot F \cdot \sqrt{N_u^2 \cdot (2 \cdot B - D + D \cdot F)^2}}$$

$$1, 2, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A + 1)^2} \cdot (B + A \cdot B - A \cdot D + A \cdot D \cdot F)}{A \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot [B + A \cdot (B - D) + A \cdot D \cdot F]^2} \cdot (A + 1)}$$

$$0, 0, 3, 4, 0, 6: \frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (C + 1)^2} \cdot (C - D + D \cdot F + 1)}{D \cdot F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot (C - D + D \cdot F + 1)^2}}$$

$$1, 0, 3, 4, 0, 6: \frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A + C)^2} \cdot (A + C - A \cdot D + A \cdot D \cdot F)}{A \cdot D \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [C - A \cdot (D - 1) + A \cdot D \cdot F]^2}}$$

$$0, 2, 3, 4, 0, 6: \frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (C + 1)^2} \cdot (B - D + B \cdot C + D \cdot F)}{D \cdot F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot (B - D + B \cdot C + D \cdot F)^2}}$$

$$1, 2, 3, 4, 0, 6: \frac{N_u \cdot (A \cdot B - A \cdot D + B \cdot C + A \cdot D \cdot F) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A + C)^2}}{A \cdot D \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot [B \cdot C + A \cdot (B - D) + A \cdot D \cdot F]^2}}$$

0, 0, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{F^2 \cdot (E + F)}}{F \cdot \sqrt{N_u^2 \cdot (E + F)^2}}$$

1, 0, 0, 0, 5, 6:

$$\frac{N_u \cdot (E + A \cdot F) \cdot \sqrt{A^2 \cdot F^2 \cdot (A + 1)^2}}{A \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot (E + A \cdot F)^2}}$$

0, 2, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{F^2 \cdot (F - E + 2 \cdot B \cdot E)}}{F \cdot \sqrt{N_u^2 \cdot [F + B \cdot E + E \cdot (B - 1)]^2}}$$

1, 2, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{A^2 \cdot F^2 \cdot (A + 1)^2 \cdot (A \cdot F - A \cdot E + B \cdot E + A \cdot B \cdot E)}}{A \cdot F \cdot \sqrt{N_u^2 \cdot [A \cdot F + B \cdot E + A \cdot E \cdot (B - 1)]^2 \cdot (A + 1)}}$$

0, 0, 3, 0, 5, 6:

$$\frac{N_u \cdot (F + C \cdot E) \cdot \sqrt{F^2 \cdot (C + 1)^2}}{F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot (F + C \cdot E)^2}}$$

1, 0, 3, 0, 5, 6:

$$\frac{N_u \cdot (A \cdot F + C \cdot E) \cdot \sqrt{A^2 \cdot F^2 \cdot (A + C)^2}}{A \cdot F \cdot (A + C) \cdot \sqrt{N_u^2 \cdot (A \cdot F + C \cdot E)^2}}$$

0, 2, 3, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{F^2 \cdot (C + 1)^2 \cdot (F - E + B \cdot E + B \cdot C \cdot E)}}{F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [F + E \cdot (B - 1) + B \cdot C \cdot E]^2}}$$

1, 2, 3, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{A^2 \cdot F^2 \cdot (A + C)^2 \cdot (A \cdot F - A \cdot E + A \cdot B \cdot E + B \cdot C \cdot E)}}{A \cdot F \cdot \sqrt{N_u^2 \cdot [A \cdot F + A \cdot E \cdot (B - 1) + B \cdot C \cdot E]^2 \cdot (A + C)}}$$

0, 0, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (2 \cdot E - D \cdot E + D \cdot F)}}{D \cdot F \cdot \sqrt{N_u^2 \cdot [E + D \cdot F - E \cdot (D - 1)]^2}}$$

1, 0, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A + 1)^2 \cdot (E + A \cdot E - A \cdot D \cdot E + A \cdot D \cdot F)}}{A \cdot D \cdot F \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [E - A \cdot E \cdot (D - 1) + A \cdot D \cdot F]^2}}$$

0, 2, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (2 \cdot B \cdot E - D \cdot E + D \cdot F)}}{D \cdot F \cdot \sqrt{N_u^2 \cdot [B \cdot E + D \cdot F + E \cdot (B - D)]^2}}$$

1, 2, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A + 1)^2 \cdot (B \cdot E + A \cdot B \cdot E - A \cdot D \cdot E + A \cdot D \cdot F)}}{A \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot [B \cdot E + A \cdot D \cdot F + A \cdot E \cdot (B - D)]^2 \cdot (A + 1)}}$$

0, 0, 3, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (C + 1)^2 \cdot (E + C \cdot E - D \cdot E + D \cdot F)}}{D \cdot F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [C \cdot E + D \cdot F - E \cdot (D - 1)]^2}}$$

1, 0, 3, 4, 5, 6:

$$\frac{N_u \cdot (A \cdot E + C \cdot E - A \cdot D \cdot E + A \cdot D \cdot F) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A + C)^2}}{A \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot [C \cdot E - A \cdot E \cdot (D - 1) + A \cdot D \cdot F]^2 \cdot (A + C)}}$$

0, 2, 3, 4, 5, 6:

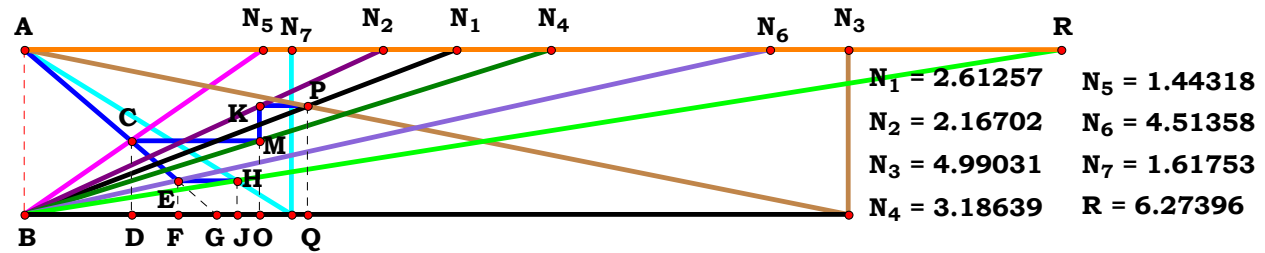
$$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot (C + 1)^2 \cdot (B \cdot E - D \cdot E + D \cdot F + B \cdot C \cdot E)}}{D \cdot F \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [D \cdot F + E \cdot (B - D) + B \cdot C \cdot E]^2}}$$

1, 2, 3, 4, 5, 6:

$$\frac{N_u \cdot (A \cdot B \cdot E - A \cdot D \cdot E + B \cdot C \cdot E + A \cdot D \cdot F) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A + C)^2}}{A \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot [B \cdot C \cdot E + A \cdot D \cdot F + A \cdot E \cdot (B - D)]^2 \cdot (A + C)}}$$



Unit. AB := 1 Given. $N_1 := 2.61257$ $N_2 := 2.16702$ $N_3 := 4.99031$ $N_4 := 3.18639$

$$\mathbf{N}_5 := 1.44318 \quad \mathbf{N}_6 := 4.51358 \quad \mathbf{N}_7 := 1.61753$$
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}} \quad \mathbf{G} := \frac{\mathbf{N_u}}{\mathbf{N_7}}$$


Descriptions.

$$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F} \cdot \mathbf{G}} = 6.273998 \quad \text{Num} := \frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}{\sqrt{[\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})]^2}} \quad \text{Den} := \frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F} \cdot \mathbf{G}}{\sqrt{(\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F} \cdot \mathbf{G})^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C}) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{F}^2 \cdot \mathbf{G}^2}}{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F} \cdot \mathbf{G} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})^2}} = \mathbf{0}$$



For 7 variables there are 128 subsets.

0, 0, 0, 0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0, 0, 0, 0:	$-\frac{N_u \cdot (D - 2) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (D - 2)^2}}$
1, 0, 0, 0, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$	1, 0, 0, 4, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A - A \cdot D + 1)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A - A \cdot D + 1)^2}}$
0, 2, 0, 0, 0, 0, 0, 0:	$\frac{N_u \cdot (2 \cdot B - 1)}{\sqrt{N_u^2 \cdot (2 \cdot B - 1)^2}}$	0, 2, 0, 4, 0, 0, 0, 0:	$-\frac{N_u \cdot \sqrt{D^2} \cdot (D - 2 \cdot B)}{D \cdot \sqrt{N_u^2 \cdot (D - 2 \cdot B)^2}}$
1, 2, 0, 0, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (B - A + A \cdot B)}{A \cdot \sqrt{N_u^2 \cdot (B - A + A \cdot B)^2}}$	1, 2, 0, 4, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (B + A \cdot B - A \cdot D)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (B + A \cdot B - A \cdot D)^2}}$
0, 0, 3, 0, 0, 0, 0, 0:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (C - D + 1)}{D \cdot \sqrt{N_u^2 \cdot (C - D + 1)^2}}$
1, 0, 3, 0, 0, 0, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{C^2 \cdot N_u^2}}$	1, 0, 3, 4, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A + C - A \cdot D)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A + C - A \cdot D)^2}}$
0, 2, 3, 0, 0, 0, 0, 0:	$\frac{N_u \cdot (B + B \cdot C - 1)}{\sqrt{N_u^2 \cdot (B + B \cdot C - 1)^2}}$	0, 2, 3, 4, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (B - D + B \cdot C)}{D \cdot \sqrt{N_u^2 \cdot (B - D + B \cdot C)^2}}$
1, 2, 3, 0, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A \cdot B - A + B \cdot C)}{A \cdot \sqrt{N_u^2 \cdot (A \cdot B - A + B \cdot C)^2}}$	1, 2, 3, 4, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C)^2}}$



0, 0, 0, 0, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$
1, 0, 0, 0, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2}}{\mathbf{A} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$
0, 2, 0, 0, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (2 \cdot \mathbf{B} - 1)}{\sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (2 \cdot \mathbf{B} - 1)^2}}$
1, 2, 0, 0, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2} \cdot (\mathbf{B} - \mathbf{A} + \mathbf{A} \cdot \mathbf{B})}{\mathbf{A} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - \mathbf{A} + \mathbf{A} \cdot \mathbf{B})^2}}$
0, 0, 3, 0, 5, 0, 0:	$\frac{\mathbf{C} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{\mathbf{C}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$
1, 0, 3, 0, 5, 0, 0:	$\frac{\mathbf{C} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2}}{\mathbf{A} \cdot \sqrt{\mathbf{C}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$
0, 2, 3, 0, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} + \mathbf{B} \cdot \mathbf{C} - 1)}{\sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} + \mathbf{B} \cdot \mathbf{C} - 1)^2}}$
1, 2, 3, 0, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2} \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} + \mathbf{B} \cdot \mathbf{C})}{\mathbf{A} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} + \mathbf{B} \cdot \mathbf{C})^2}}$

0, 0, 0, 4, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D} - 2) \cdot \sqrt{\mathbf{D}^2}}{\mathbf{D} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{D} - 2)^2}}$
1, 0, 0, 4, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2} \cdot (\mathbf{A} - \mathbf{A} \cdot \mathbf{D} + 1)}{\mathbf{A} \cdot \mathbf{D} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{A} \cdot \mathbf{D} + 1)^2}}$
0, 2, 0, 4, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{D}^2} \cdot (\mathbf{D} - 2 \cdot \mathbf{B})}{\mathbf{D} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{D} - 2 \cdot \mathbf{B})^2}}$
1, 2, 0, 4, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2} \cdot (\mathbf{B} + \mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D})}{\mathbf{A} \cdot \mathbf{D} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} + \mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D})^2}}$
0, 0, 3, 4, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{D}^2} \cdot (\mathbf{C} - \mathbf{D} + 1)}{\mathbf{D} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C} - \mathbf{D} + 1)^2}}$
1, 0, 3, 4, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{A} \cdot \mathbf{D})}{\mathbf{A} \cdot \mathbf{D} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{C} - \mathbf{A} \cdot \mathbf{D})^2}}$
0, 2, 3, 4, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{D}^2} \cdot (\mathbf{B} - \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}{\mathbf{D} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - \mathbf{D} + \mathbf{B} \cdot \mathbf{C})^2}}$
1, 2, 3, 4, 5, 0, 0:	$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2} \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}{\mathbf{A} \cdot \mathbf{D} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})^2}}$



0, 0, 0, 0, 0, 6, 0:	$\frac{N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0, 6, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2}}{A \cdot F \cdot \sqrt{N_u^2}}$
0, 2, 0, 0, 0, 6, 0:	$\frac{N_u \cdot \sqrt{F^2} \cdot (2 \cdot B - 1)}{F \cdot \sqrt{N_u^2 \cdot (2 \cdot B - 1)^2}}$
1, 2, 0, 0, 0, 6, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (B - A + A \cdot B)}{A \cdot F \cdot \sqrt{N_u^2 \cdot (B - A + A \cdot B)^2}}$
0, 0, 3, 0, 0, 6, 0:	$\frac{C \cdot N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{C^2 \cdot N_u^2}}$
1, 0, 3, 0, 0, 6, 0:	$\frac{C \cdot N_u \cdot \sqrt{A^2 \cdot F^2}}{A \cdot F \cdot \sqrt{C^2 \cdot N_u^2}}$
0, 2, 3, 0, 0, 6, 0:	$\frac{N_u \cdot \sqrt{F^2} \cdot (B + B \cdot C - 1)}{F \cdot \sqrt{N_u^2 \cdot (B + B \cdot C - 1)^2}}$
1, 2, 3, 0, 0, 6, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A \cdot B - A + B \cdot C)}{A \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot B - A + B \cdot C)^2}}$

0, 0, 0, 4, 0, 6, 0:	$\frac{N_u \cdot (D - 2) \cdot \sqrt{D^2 \cdot F^2}}{D \cdot F \cdot \sqrt{N_u^2 \cdot (D - 2)^2}}$
1, 0, 0, 4, 0, 6, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot F^2} \cdot (A - A \cdot D + 1)}{A \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot (A - A \cdot D + 1)^2}}$
0, 2, 0, 4, 0, 6, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot F^2} \cdot (D - 2 \cdot B)}{D \cdot F \cdot \sqrt{N_u^2 \cdot (D - 2 \cdot B)^2}}$
1, 2, 0, 4, 0, 6, 0:	$\frac{N_u \cdot (B + A \cdot B - A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2}}{A \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot (B + A \cdot B - A \cdot D)^2}}$
0, 0, 3, 4, 0, 6, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot F^2} \cdot (C - D + 1)}{D \cdot F \cdot \sqrt{N_u^2 \cdot (C - D + 1)^2}}$
1, 0, 3, 4, 0, 6, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot F^2} \cdot (A + C - A \cdot D)}{A \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot (A + C - A \cdot D)^2}}$
0, 2, 3, 4, 0, 6, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot F^2} \cdot (B - D + B \cdot C)}{D \cdot F \cdot \sqrt{N_u^2 \cdot (B - D + B \cdot C)^2}}$
1, 2, 3, 4, 0, 6, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot F^2} \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C)^2}}$



0, 0, 0, 0, 0, 0, 7:	$\frac{N_u \cdot \sqrt{G^2}}{G \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0, 0, 7:	$\frac{N_u \cdot \sqrt{A^2 \cdot G^2}}{A \cdot G \cdot \sqrt{N_u^2}}$
0, 2, 0, 0, 0, 0, 7:	$\frac{N_u \cdot \sqrt{G^2} \cdot (2 \cdot B - 1)}{G \cdot \sqrt{N_u^2 \cdot (2 \cdot B - 1)^2}}$
1, 2, 0, 0, 0, 0, 7:	$\frac{N_u \cdot \sqrt{A^2 \cdot G^2} \cdot (B - A + A \cdot B)}{A \cdot G \cdot \sqrt{N_u^2 \cdot (B - A + A \cdot B)^2}}$
0, 0, 3, 0, 0, 0, 7:	$\frac{C \cdot N_u \cdot \sqrt{G^2}}{G \cdot \sqrt{C^2 \cdot N_u^2}}$
1, 0, 3, 0, 0, 0, 7:	$\frac{C \cdot N_u \cdot \sqrt{A^2 \cdot G^2}}{A \cdot G \cdot \sqrt{C^2 \cdot N_u^2}}$
0, 2, 3, 0, 0, 0, 7:	$\frac{N_u \cdot \sqrt{G^2} \cdot (B + B \cdot C - 1)}{G \cdot \sqrt{N_u^2 \cdot (B + B \cdot C - 1)^2}}$
1, 2, 3, 0, 0, 0, 7:	$\frac{N_u \cdot \sqrt{A^2 \cdot G^2} \cdot (A \cdot B - A + B \cdot C)}{A \cdot G \cdot \sqrt{N_u^2 \cdot (A \cdot B - A + B \cdot C)^2}}$

0, 0, 0, 4, 0, 0, 7:	$\frac{N_u \cdot (D - 2) \cdot \sqrt{D^2 \cdot G^2}}{D \cdot G \cdot \sqrt{N_u^2 \cdot (D - 2)^2}}$
1, 0, 0, 4, 0, 0, 7:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot G^2} \cdot (A - A \cdot D + 1)}{A \cdot D \cdot G \cdot \sqrt{N_u^2 \cdot (A - A \cdot D + 1)^2}}$
0, 2, 0, 4, 0, 0, 7:	$\frac{N_u \cdot \sqrt{D^2 \cdot G^2} \cdot (D - 2 \cdot B)}{D \cdot G \cdot \sqrt{N_u^2 \cdot (D - 2 \cdot B)^2}}$
1, 2, 0, 4, 0, 0, 7:	$\frac{N_u \cdot (B + A \cdot B - A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot G^2}}{A \cdot D \cdot G \cdot \sqrt{N_u^2 \cdot (B + A \cdot B - A \cdot D)^2}}$
0, 0, 3, 4, 0, 0, 7:	$\frac{N_u \cdot \sqrt{D^2 \cdot G^2} \cdot (C - D + 1)}{D \cdot G \cdot \sqrt{N_u^2 \cdot (C - D + 1)^2}}$
1, 0, 3, 4, 0, 0, 7:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot G^2} \cdot (A + C - A \cdot D)}{A \cdot D \cdot G \cdot \sqrt{N_u^2 \cdot (A + C - A \cdot D)^2}}$
0, 2, 3, 4, 0, 0, 7:	$\frac{N_u \cdot \sqrt{D^2 \cdot G^2} \cdot (B - D + B \cdot C)}{D \cdot G \cdot \sqrt{N_u^2 \cdot (B - D + B \cdot C)^2}}$
1, 2, 3, 4, 0, 0, 7:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot G^2} \cdot (A \cdot B - A \cdot D + B \cdot C)}{A \cdot D \cdot G \cdot \sqrt{N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C)^2}}$

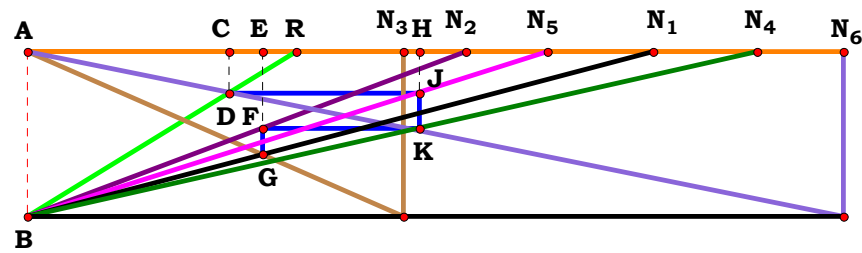


0, 0, 0, 0, 0, 6, 7:	$\frac{N_u \cdot \sqrt{F^2 \cdot G^2}}{F \cdot G \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0, 6, 7:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2 \cdot G^2}}{A \cdot F \cdot G \cdot \sqrt{N_u^2}}$
0, 2, 0, 0, 0, 6, 7:	$\frac{N_u \cdot \sqrt{F^2 \cdot G^2} \cdot (2 \cdot B - 1)}{F \cdot G \cdot \sqrt{N_u^2 \cdot (2 \cdot B - 1)^2}}$
1, 2, 0, 0, 0, 6, 7:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2 \cdot G^2} \cdot (B - A + A \cdot B)}{A \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (B - A + A \cdot B)^2}}$
0, 0, 3, 0, 0, 6, 7:	$\frac{C \cdot N_u \cdot \sqrt{F^2 \cdot G^2}}{F \cdot G \cdot \sqrt{C^2 \cdot N_u^2}}$
1, 0, 3, 0, 0, 6, 7:	$\frac{C \cdot N_u \cdot \sqrt{A^2 \cdot F^2 \cdot G^2}}{A \cdot F \cdot G \cdot \sqrt{C^2 \cdot N_u^2}}$
0, 2, 3, 0, 0, 6, 7:	$\frac{N_u \cdot \sqrt{F^2 \cdot G^2} \cdot (B + B \cdot C - 1)}{F \cdot G \cdot \sqrt{N_u^2 \cdot (B + B \cdot C - 1)^2}}$
1, 2, 3, 0, 0, 6, 7:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2 \cdot G^2} \cdot (A \cdot B - A + B \cdot C)}{A \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (A \cdot B - A + B \cdot C)^2}}$

0, 0, 0, 4, 0, 6, 7:	$\frac{N_u \cdot (D - 2) \cdot \sqrt{D^2 \cdot F^2 \cdot G^2}}{D \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (D - 2)^2}}$
1, 0, 0, 4, 0, 6, 7:	$\frac{N_u \cdot (A - A \cdot D + 1) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot G^2}}{A \cdot D \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (A - A \cdot D + 1)^2}}$
0, 2, 0, 4, 0, 6, 7:	$\frac{N_u \cdot (D - 2 \cdot B) \cdot \sqrt{D^2 \cdot F^2 \cdot G^2}}{D \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (D - 2 \cdot B)^2}}$
1, 2, 0, 4, 0, 6, 7:	$\frac{N_u \cdot (B + A \cdot B - A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot G^2}}{A \cdot D \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (B + A \cdot B - A \cdot D)^2}}$
0, 0, 3, 4, 0, 6, 7:	$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot G^2} \cdot (C - D + 1)}{D \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (C - D + 1)^2}}$
1, 0, 3, 4, 0, 6, 7:	$\frac{N_u \cdot (A + C - A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot G^2}}{A \cdot D \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (A + C - A \cdot D)^2}}$
0, 2, 3, 4, 0, 6, 7:	$\frac{N_u \cdot \sqrt{D^2 \cdot F^2 \cdot G^2} \cdot (B - D + B \cdot C)}{D \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (B - D + B \cdot C)^2}}$
1, 2, 3, 4, 0, 6, 7:	$\frac{N_u \cdot (A \cdot B - A \cdot D + B \cdot C) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot G^2}}{A \cdot D \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C)^2}}$



Unit. $AB := 1$ Given. $N_1 := 3.78455$ $N_2 := 2.65131$ $N_3 := 2.27829$ $N_4 := 4.41649$ $N_5 := 3.14788$ $N_6 := 4.93975$



$N_1 = 3.78455$ $N_5 = 3.14788$
 $N_2 = 2.65131$ $N_6 = 4.93975$
 $N_3 = 2.27829$ $R = 1.62411$
 $N_4 = 4.41649$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u \cdot (A \cdot D - B \cdot E + C \cdot D)}{B \cdot E \cdot F} = 1.624109$$

$$Num := \frac{N_u \cdot (A \cdot D - B \cdot E + C \cdot D)}{\sqrt{\left[N_u \cdot (A \cdot D - B \cdot E + C \cdot D)\right]^2}}$$

$$Den := \frac{B \cdot E \cdot F}{\sqrt{(B \cdot E \cdot F)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot E^2 \cdot F^2} \cdot (A \cdot D - B \cdot E + C \cdot D)}{B \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot D - B \cdot E + C \cdot D)^2}} = 0$$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0:

$$\frac{N_u}{\sqrt{N_u^2}}$$

1, 0, 0, 0, 0, 0:

$$\frac{A \cdot N_u}{\sqrt{A^2 \cdot N_u^2}}$$

0, 2, 0, 0, 0, 0:

$$-\frac{N_u \cdot (B - 2) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (B - 2)^2}}$$

1, 2, 0, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{B^2} \cdot (A - B + 1)}{B \cdot \sqrt{N_u^2 \cdot (A - B + 1)^2}}$$

0, 0, 3, 0, 0, 0:

$$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$$

1, 0, 3, 0, 0, 0:

$$\frac{N_u \cdot (A + C - 1)}{\sqrt{N_u^2 \cdot (A + C - 1)^2}}$$

0, 2, 3, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{B^2} \cdot (C - B + 1)}{B \cdot \sqrt{N_u^2 \cdot (C - B + 1)^2}}$$

1, 2, 3, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{B^2} \cdot (A - B + C)}{B \cdot \sqrt{N_u^2 \cdot (A - B + C)^2}}$$

0, 0, 0, 4, 0, 0:

$$\frac{N_u \cdot (2 \cdot D - 1)}{\sqrt{N_u^2 \cdot (2 \cdot D - 1)^2}}$$

1, 0, 0, 4, 0, 0:

$$\frac{N_u \cdot (D + A \cdot D - 1)}{\sqrt{N_u^2 \cdot (D + A \cdot D - 1)^2}}$$

0, 2, 0, 4, 0, 0:

$$-\frac{N_u \cdot \sqrt{B^2} \cdot (B - 2 \cdot D)}{B \cdot \sqrt{N_u^2 \cdot (B - 2 \cdot D)^2}}$$

1, 2, 0, 4, 0, 0:

$$\frac{N_u \cdot \sqrt{B^2} \cdot (D - B + A \cdot D)}{B \cdot \sqrt{N_u^2 \cdot (D - B + A \cdot D)^2}}$$

0, 0, 3, 4, 0, 0:

$$\frac{N_u \cdot (D + C \cdot D - 1)}{\sqrt{N_u^2 \cdot (D + C \cdot D - 1)^2}}$$

1, 0, 3, 4, 0, 0:

$$\frac{N_u \cdot (A \cdot D + C \cdot D - 1)}{\sqrt{N_u^2 \cdot (A \cdot D + C \cdot D - 1)^2}}$$

0, 2, 3, 4, 0, 0:

$$\frac{N_u \cdot \sqrt{B^2} \cdot (D - B + C \cdot D)}{B \cdot \sqrt{N_u^2 \cdot (D - B + C \cdot D)^2}}$$

1, 2, 3, 4, 0, 0:

$$\frac{N_u \cdot \sqrt{B^2} \cdot (A \cdot D - B + C \cdot D)}{B \cdot \sqrt{N_u^2 \cdot (A \cdot D - B + C \cdot D)^2}}$$



0, 0, 0, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 0, 6:

$$\frac{A \cdot N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{A^2 \cdot N_u^2}}$$

0, 2, 0, 0, 0, 6:

$$\frac{N_u \cdot (B - 2) \cdot \sqrt{B^2 \cdot F^2}}{B \cdot F \cdot \sqrt{N_u^2 \cdot (B - 2)^2}}$$

1, 2, 0, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (A - B + 1)}{B \cdot F \cdot \sqrt{N_u^2 \cdot (A - B + 1)^2}}$$

0, 0, 3, 0, 0, 6:

$$\frac{C \cdot N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{C^2 \cdot N_u^2}}$$

1, 0, 3, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{F^2} \cdot (A + C - 1)}{F \cdot \sqrt{N_u^2 \cdot (A + C - 1)^2}}$$

0, 2, 3, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (C - B + 1)}{B \cdot F \cdot \sqrt{N_u^2 \cdot (C - B + 1)^2}}$$

1, 2, 3, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (A - B + C)}{B \cdot F \cdot \sqrt{N_u^2 \cdot (A - B + C)^2}}$$

0, 0, 0, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{F^2} \cdot (2 \cdot D - 1)}{F \cdot \sqrt{N_u^2 \cdot (2 \cdot D - 1)^2}}$$

1, 0, 0, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{F^2} \cdot (D + A \cdot D - 1)}{F \cdot \sqrt{N_u^2 \cdot (D + A \cdot D - 1)^2}}$$

0, 2, 0, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (B - 2 \cdot D)}{B \cdot F \cdot \sqrt{N_u^2 \cdot (B - 2 \cdot D)^2}}$$

1, 2, 0, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (D - B + A \cdot D)}{B \cdot F \cdot \sqrt{N_u^2 \cdot (D - B + A \cdot D)^2}}$$

0, 0, 3, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{F^2} \cdot (D + C \cdot D - 1)}{F \cdot \sqrt{N_u^2 \cdot (D + C \cdot D - 1)^2}}$$

1, 0, 3, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{F^2} \cdot (A \cdot D + C \cdot D - 1)}{F \cdot \sqrt{N_u^2 \cdot (A \cdot D + C \cdot D - 1)^2}}$$

0, 2, 3, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (D - B + C \cdot D)}{B \cdot F \cdot \sqrt{N_u^2 \cdot (D - B + C \cdot D)^2}}$$

1, 2, 3, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (A \cdot D - B + C \cdot D)}{B \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot D - B + C \cdot D)^2}}$$

$$0, 0, 0, 0, 5, 6: \frac{N_u \cdot (E - 2) \cdot \sqrt{E^2 \cdot F^2}}{E \cdot F \cdot \sqrt{N_u^2 \cdot (E - 2)^2}}$$

$$1, 0, 0, 0, 5, 6: \frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (A - E + 1)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (A - E + 1)^2}}$$

$$0, 2, 0, 0, 5, 6: \frac{N_u \cdot (B \cdot E - 2) \cdot \sqrt{B^2 \cdot E^2 \cdot F^2}}{B \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (B \cdot E - 2)^2}}$$

$$1, 2, 0, 0, 5, 6: \frac{N_u \cdot \sqrt{B^2 \cdot E^2 \cdot F^2} \cdot (A - B \cdot E + 1)}{B \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A - B \cdot E + 1)^2}}$$

$$0, 0, 3, 0, 5, 6: \frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (C - E + 1)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (C - E + 1)^2}}$$

$$1, 0, 3, 0, 5, 6: \frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (A + C - E)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (A + C - E)^2}}$$

$$0, 2, 3, 0, 5, 6: \frac{N_u \cdot \sqrt{B^2 \cdot E^2 \cdot F^2} \cdot (C - B \cdot E + 1)}{B \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (C - B \cdot E + 1)^2}}$$

$$1, 2, 3, 0, 5, 6: \frac{N_u \cdot \sqrt{B^2 \cdot E^2 \cdot F^2} \cdot (A + C - B \cdot E)}{B \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A + C - B \cdot E)^2}}$$

$$0, 0, 0, 4, 5, 6: \frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (E - 2 \cdot D)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (E - 2 \cdot D)^2}}$$

$$1, 0, 0, 4, 5, 6: \frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (D - E + A \cdot D)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (D - E + A \cdot D)^2}}$$

$$0, 2, 0, 4, 5, 6: \frac{N_u \cdot (2 \cdot D - B \cdot E) \cdot \sqrt{B^2 \cdot E^2 \cdot F^2}}{B \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (2 \cdot D - B \cdot E)^2}}$$

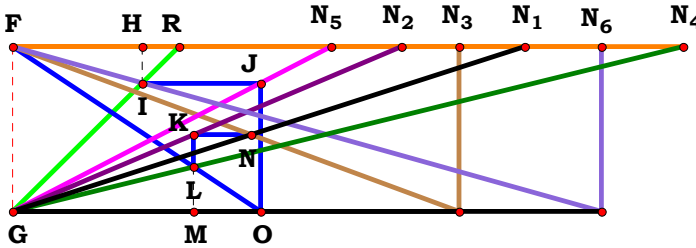
$$1, 2, 0, 4, 5, 6: \frac{N_u \cdot (D + A \cdot D - B \cdot E) \cdot \sqrt{B^2 \cdot E^2 \cdot F^2}}{B \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (D + A \cdot D - B \cdot E)^2}}$$

$$0, 0, 3, 4, 5, 6: \frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (D - E + C \cdot D)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (D - E + C \cdot D)^2}}$$

$$1, 0, 3, 4, 5, 6: \frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (A \cdot D - E + C \cdot D)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot D - E + C \cdot D)^2}}$$

$$0, 2, 3, 4, 5, 6: \frac{N_u \cdot \sqrt{B^2 \cdot E^2 \cdot F^2} \cdot (D - B \cdot E + C \cdot D)}{B \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (D - B \cdot E + C \cdot D)^2}}$$

$$1, 2, 3, 4, 5, 6: \frac{N_u \cdot \sqrt{B^2 \cdot E^2 \cdot F^2} \cdot (A \cdot D - B \cdot E + C \cdot D)}{B \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot D - B \cdot E + C \cdot D)^2}}$$



N₁ = 3.09686
N₂ = 2.35105
N₃ = 2.70447
N₄ = 4.05811
N₅ = 1.92747
N₆ = 3.56437
R = 1.01103

Unit. AB := 1 Given. N₁ := 3.09686 N₂ := 2.35105 N₃ := 2.70447
N₄ := 4.05811 N₅ := 1.92747 N₆ := 3.56437

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$ F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u \cdot (A \cdot B - A \cdot D + B \cdot C - A \cdot E)}{A \cdot E \cdot F} = 1.011031$$

Num := $\frac{N_u \cdot (A \cdot B - A \cdot D + B \cdot C - A \cdot E)}{\sqrt{\left[N_u \cdot (A \cdot B - A \cdot D + B \cdot C - A \cdot E)\right]^2}}$

Den := $\frac{A \cdot E \cdot F}{\sqrt{(A \cdot E \cdot F)^2}}$

L := $\frac{\text{Num}}{\text{Den}}$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot F^2 \cdot (A \cdot B - A \cdot D + B \cdot C - A \cdot E)}}{A \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C - A \cdot E)^2}} = 0$$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0:	0	0, 0, 0, 4, 0, 0:	$-\frac{\mathbf{N_u} \cdot (\mathbf{D} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{D} - 1)^2}}$
1, 0, 0, 0, 0, 0:	$-\frac{\mathbf{N_u} \cdot (\mathbf{A} - 1) \cdot \sqrt{\mathbf{A}^2}}{\mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - 1)^2}}$	1, 0, 0, 4, 0, 0:	$-\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{A}^2} \cdot (\mathbf{A} \cdot \mathbf{D} - 1)}{\mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} \cdot \mathbf{D} - 1)^2}}$
0, 2, 0, 0, 0, 0:	$\frac{\mathbf{N_u} \cdot (2 \cdot \mathbf{B} - 2)}{\sqrt{\mathbf{N_u}^2 \cdot (2 \cdot \mathbf{B} - 2)^2}}$	0, 2, 0, 4, 0, 0:	$-\frac{\mathbf{N_u} \cdot (\mathbf{D} - 2 \cdot \mathbf{B} + 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{D} - 2 \cdot \mathbf{B} + 1)^2}}$
1, 2, 0, 0, 0, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{A}^2} \cdot (\mathbf{B} - 2 \cdot \mathbf{A} + \mathbf{A} \cdot \mathbf{B})}{\mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} - 2 \cdot \mathbf{A} + \mathbf{A} \cdot \mathbf{B})^2}}$	1, 2, 0, 4, 0, 0:	$-\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{A}^2} \cdot (\mathbf{A} - \mathbf{B} - \mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{D})}{\mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B} - \mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{D})^2}}$
0, 0, 3, 0, 0, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{C} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{C} - 1)^2}}$	0, 0, 3, 4, 0, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{C} - \mathbf{D})}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{C} - \mathbf{D})^2}}$
1, 0, 3, 0, 0, 0:	$-\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{A}^2} \cdot (\mathbf{A} - \mathbf{C})}{\mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{C})^2}}$	1, 0, 3, 4, 0, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{C} - \mathbf{A} \cdot \mathbf{D}) \cdot \sqrt{\mathbf{A}^2}}{\mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{C} - \mathbf{A} \cdot \mathbf{D})^2}}$
0, 2, 3, 0, 0, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} + \mathbf{B} \cdot \mathbf{C} - 2)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} + \mathbf{B} \cdot \mathbf{C} - 2)^2}}$	0, 2, 3, 4, 0, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} - \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} - \mathbf{D} + \mathbf{B} \cdot \mathbf{C} - 1)^2}}$
1, 2, 3, 0, 0, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{A}^2} \cdot (\mathbf{A} \cdot \mathbf{B} - 2 \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{C})}{\mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} \cdot \mathbf{B} - 2 \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{C})^2}}$	1, 2, 3, 4, 0, 0:	$-\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{A}^2} \cdot (\mathbf{A} - \mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{C})}{\mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{C})^2}}$

0, 0, 0, 0, 5, 0:	$-\frac{N_u \cdot (E - 1) \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2 \cdot (E - 1)^2}}$
1, 0, 0, 0, 5, 0:	$-\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A \cdot E - 1)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A \cdot E - 1)^2}}$
0, 2, 0, 0, 5, 0:	$-\frac{N_u \cdot \sqrt{E^2} \cdot (E - 2 \cdot B + 1)}{E \cdot \sqrt{N_u^2 \cdot (E - 2 \cdot B + 1)^2}}$
1, 2, 0, 0, 5, 0:	$-\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A - B - A \cdot B + A \cdot E)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A - B - A \cdot B + A \cdot E)^2}}$
0, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{E^2} \cdot (C - E)}{E \cdot \sqrt{N_u^2 \cdot (C - E)^2}}$
1, 0, 3, 0, 5, 0:	$\frac{N_u \cdot (C - A \cdot E) \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{N_u^2 \cdot (C - A \cdot E)^2}}$
0, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{E^2} \cdot (B - E + B \cdot C - 1)}{E \cdot \sqrt{N_u^2 \cdot (B - E + B \cdot C - 1)^2}}$
1, 2, 3, 0, 5, 0:	$-\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A - A \cdot B - B \cdot C + A \cdot E)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A - A \cdot B - B \cdot C + A \cdot E)^2}}$

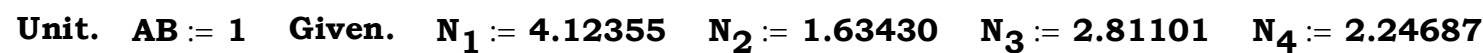
0, 0, 0, 4, 5, 0:	$-\frac{N_u \cdot \sqrt{E^2} \cdot (D + E - 2)}{E \cdot \sqrt{N_u^2 \cdot (D + E - 2)^2}}$
1, 0, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A - A \cdot D - A \cdot E + 1)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A - A \cdot D - A \cdot E + 1)^2}}$
0, 2, 0, 4, 5, 0:	$-\frac{N_u \cdot \sqrt{E^2} \cdot (D - 2 \cdot B + E)}{E \cdot \sqrt{N_u^2 \cdot (D - 2 \cdot B + E)^2}}$
1, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (B + A \cdot B - A \cdot D - A \cdot E)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (B + A \cdot B - A \cdot D - A \cdot E)^2}}$
0, 0, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{E^2} \cdot (C - D - E + 1)}{E \cdot \sqrt{N_u^2 \cdot (C - D - E + 1)^2}}$
1, 0, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A + C - A \cdot D - A \cdot E)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A + C - A \cdot D - A \cdot E)^2}}$
0, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{E^2} \cdot (B - D - E + B \cdot C)}{E \cdot \sqrt{N_u^2 \cdot (B - D - E + B \cdot C)^2}}$
1, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A \cdot B - A \cdot D + B \cdot C - A \cdot E)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A \cdot B - A \cdot D + B \cdot C - A \cdot E)^2}}$



0, 0, 0, 0, 0, 6:	0
1, 0, 0, 0, 0, 6:	$\frac{N_u \cdot (A - 1) \cdot \sqrt{A^2 \cdot F^2}}{A \cdot F \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$
0, 2, 0, 0, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (2 \cdot B - 2)}{F \cdot \sqrt{N_u^2 \cdot (2 \cdot B - 2)^2}}$
1, 2, 0, 0, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (B - 2 \cdot A + A \cdot B)}{A \cdot F \cdot \sqrt{N_u^2 \cdot (B - 2 \cdot A + A \cdot B)^2}}$
0, 0, 3, 0, 0, 6:	$\frac{N_u \cdot (C - 1) \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2 \cdot (C - 1)^2}}$
1, 0, 3, 0, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A - C)}{A \cdot F \cdot \sqrt{N_u^2 \cdot (A - C)^2}}$
0, 2, 3, 0, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (B + B \cdot C - 2)}{F \cdot \sqrt{N_u^2 \cdot (B + B \cdot C - 2)^2}}$
1, 2, 3, 0, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A \cdot B - 2 \cdot A + B \cdot C)}{A \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot B - 2 \cdot A + B \cdot C)^2}}$

0, 0, 0, 4, 0, 6:	$\frac{N_u \cdot (D - 1) \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2 \cdot (D - 1)^2}}$
1, 0, 0, 4, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A \cdot D - 1)}{A \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot D - 1)^2}}$
0, 2, 0, 4, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (D - 2 \cdot B + 1)}{F \cdot \sqrt{N_u^2 \cdot (D - 2 \cdot B + 1)^2}}$
1, 2, 0, 4, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A - B - A \cdot B + A \cdot D)}{A \cdot F \cdot \sqrt{N_u^2 \cdot (A - B - A \cdot B + A \cdot D)^2}}$
0, 0, 3, 4, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (C - D)}{F \cdot \sqrt{N_u^2 \cdot (C - D)^2}}$
1, 0, 3, 4, 0, 6:	$\frac{N_u \cdot (C - A \cdot D) \cdot \sqrt{A^2 \cdot F^2}}{A \cdot F \cdot \sqrt{N_u^2 \cdot (C - A \cdot D)^2}}$
0, 2, 3, 4, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (B - D + B \cdot C - 1)}{F \cdot \sqrt{N_u^2 \cdot (B - D + B \cdot C - 1)^2}}$
1, 2, 3, 4, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A - A \cdot B + A \cdot D - B \cdot C)}{A \cdot F \cdot \sqrt{N_u^2 \cdot (A - A \cdot B + A \cdot D - B \cdot C)^2}}$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{Num} := \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C})}{\sqrt{[\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C})]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}{\sqrt{[\mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

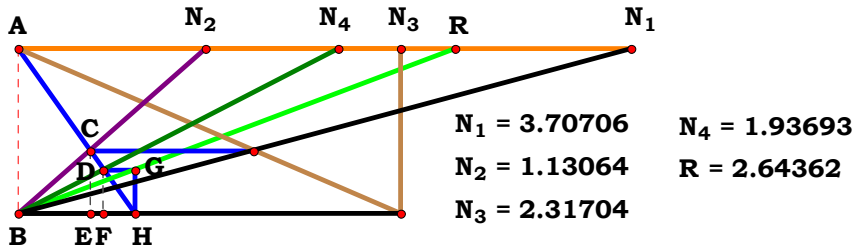
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})^2 \cdot (\mathbf{A} + \mathbf{C})}}{\mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{B} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C}) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{C})^2}} = \mathbf{0}$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$-\frac{N_u \cdot \sqrt{D^2 \cdot (D-2)^2}}{D \cdot (D-2) \cdot \sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot (A+1)}{\sqrt{N_u^2 \cdot (A+1)^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot (A+1) \cdot \sqrt{D^2 \cdot (A-A \cdot D+1)^2}}{D \cdot \sqrt{N_u^2 \cdot (A+1)^2} \cdot (A-A \cdot D+1)}$
0, 2, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{(2 \cdot B-1)^2}}{\sqrt{B^2 \cdot N_u^2} \cdot (2 \cdot B-1)}$	0, 2, 0, 4:	$-\frac{B \cdot N_u \cdot \sqrt{D^2 \cdot (D-2 \cdot B)^2}}{D \cdot \sqrt{B^2 \cdot N_u^2} \cdot (D-2 \cdot B)}$
1, 2, 0, 0:	$\frac{B \cdot N_u \cdot (A+1) \cdot \sqrt{(B-A+A \cdot B)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (A+1)^2} \cdot (B-A+A \cdot B)}$	1, 2, 0, 4:	$\frac{B \cdot N_u \cdot (A+1) \cdot \sqrt{D^2 \cdot (B+A \cdot B-A \cdot D)^2}}{D \cdot (B+A \cdot B-A \cdot D) \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A+1)^2}}$
0, 0, 3, 0:	$\frac{N_u \cdot (C+1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (C+1)^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot (C+1) \cdot \sqrt{D^2 \cdot (C-D+1)^2}}{D \cdot \sqrt{N_u^2 \cdot (C+1)^2} \cdot (C-D+1)}$
1, 0, 3, 0:	$\frac{N_u \cdot \sqrt{C^2} \cdot (A+C)}{C \cdot \sqrt{N_u^2 \cdot (A+C)^2}}$	1, 0, 3, 4:	$\frac{N_u \cdot \sqrt{D^2 \cdot (A+C-A \cdot D)^2} \cdot (A+C)}{D \cdot \sqrt{N_u^2 \cdot (A+C)^2} \cdot (A+C-A \cdot D)}$
0, 2, 3, 0:	$\frac{B \cdot N_u \cdot (C+1) \cdot \sqrt{(B+B \cdot C-1)^2}}{(B+B \cdot C-1) \cdot \sqrt{B^2 \cdot N_u^2} \cdot (C+1)^2}$	0, 2, 3, 4:	$\frac{B \cdot N_u \cdot (C+1) \cdot \sqrt{D^2 \cdot (B-D+B \cdot C)^2}}{D \cdot \sqrt{B^2 \cdot N_u^2} \cdot (C+1)^2 \cdot (B-D+B \cdot C)}$
1, 2, 3, 0:	$\frac{B \cdot N_u \cdot (A+C) \cdot \sqrt{(A \cdot B-A+B \cdot C)^2}}{(A \cdot B-A+B \cdot C) \cdot \sqrt{B^2 \cdot N_u^2} \cdot (A+C)^2}$	1, 2, 3, 4:	$\frac{B \cdot N_u \cdot \sqrt{D^2 \cdot (A \cdot B-A \cdot D+B \cdot C)^2} \cdot (A+C)}{D \cdot (A \cdot B-A \cdot D+B \cdot C) \cdot \sqrt{B^2 \cdot N_u^2} \cdot (A+C)^2}$



Unit. $AB := 1$ Given. $N_1 := 3.70706$ $N_2 := 1.13064$ $N_3 := 2.31704$ $N_4 := 1.93693$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (A \cdot D + B \cdot C)}{B \cdot C \cdot D} = 2.643619$$

$$Num := \frac{N_u \cdot (A \cdot D + B \cdot C)}{\sqrt{[N_u \cdot (A \cdot D + B \cdot C)]^2}}$$

$$Den := \frac{B \cdot C \cdot D}{\sqrt{(B \cdot C \cdot D)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

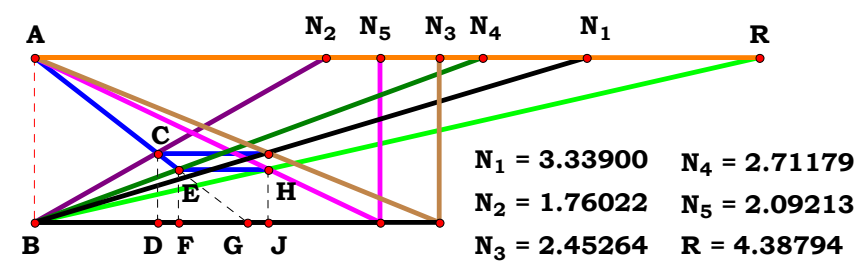
$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (A \cdot D + B \cdot C) \cdot \sqrt{B^2 \cdot C^2 \cdot D^2}}{B \cdot C \cdot D \cdot \sqrt{N_u^2 \cdot (A \cdot D + B \cdot C)^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot (D + 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (D + 1)^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot (A + 1)}{\sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2} \cdot (A \cdot D + 1)}{D \cdot \sqrt{N_u^2 \cdot (A \cdot D + 1)^2}}$
0, 2, 0, 0:	$\frac{N_u \cdot (B + 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$	0, 2, 0, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (B + D)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (B + D)^2}}$
1, 2, 0, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (A + B)}{B \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$	1, 2, 0, 4:	$\frac{N_u \cdot (B + A \cdot D) \cdot \sqrt{B^2 \cdot D^2}}{B \cdot D \cdot \sqrt{N_u^2 \cdot (B + A \cdot D)^2}}$
0, 0, 3, 0:	$\frac{N_u \cdot (C + 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (C + 1)^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot \sqrt{C^2 \cdot D^2} \cdot (C + D)}{C \cdot D \cdot \sqrt{N_u^2 \cdot (C + D)^2}}$
1, 0, 3, 0:	$\frac{N_u \cdot \sqrt{C^2} \cdot (A + C)}{C \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$	1, 0, 3, 4:	$\frac{N_u \cdot (C + A \cdot D) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (C + A \cdot D)^2}}$
0, 2, 3, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot C^2} \cdot (B \cdot C + 1)}{B \cdot C \cdot \sqrt{N_u^2 \cdot (B \cdot C + 1)^2}}$	0, 2, 3, 4:	$\frac{N_u \cdot (D + B \cdot C) \cdot \sqrt{B^2 \cdot C^2 \cdot D^2}}{B \cdot C \cdot D \cdot \sqrt{N_u^2 \cdot (D + B \cdot C)^2}}$
1, 2, 3, 0:	$\frac{N_u \cdot (A + B \cdot C) \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{N_u^2 \cdot (A + B \cdot C)^2}}$	1, 2, 3, 4:	$\frac{N_u \cdot (A \cdot D + B \cdot C) \cdot \sqrt{B^2 \cdot C^2 \cdot D^2}}{B \cdot C \cdot D \cdot \sqrt{N_u^2 \cdot (A \cdot D + B \cdot C)^2}}$



Unit. $AB := 1$ Given. $N_1 := 3.33900$ $N_2 := 1.76022$ $N_3 := 2.45264$
 $N_4 := 2.71179$ $N_5 := 2.09213$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{B \cdot C \cdot N_u}{A \cdot D \cdot E} = 4.387937$$

$$Num := \frac{B \cdot C \cdot N_u}{\sqrt{(B \cdot C \cdot N_u)^2}}$$

$$Den := \frac{A \cdot D \cdot E}{\sqrt{(A \cdot D \cdot E)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

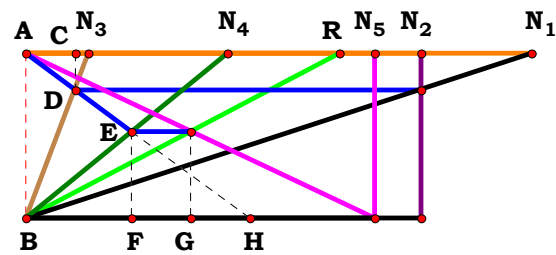
$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{B \cdot C \cdot N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$	0, 0, 0, 0, 5:	$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$	0, 0, 0, 4, 5:	$\frac{N_u \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$	1, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{N_u^2}}$	1, 0, 0, 0, 5:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{N_u^2}}$	1, 0, 0, 4, 5:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2}}$
0, 2, 0, 0, 0:	$\frac{B \cdot N_u}{\sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4, 0:	$\frac{B \cdot N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 0, 5:	$\frac{B \cdot N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4, 5:	$\frac{B \cdot N_u \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{B^2 \cdot N_u^2}}$	1, 2, 0, 4, 0:	$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{B^2 \cdot N_u^2}}$	1, 2, 0, 0, 5:	$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{B^2 \cdot N_u^2}}$	1, 2, 0, 4, 5:	$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{B^2 \cdot N_u^2}}$
0, 0, 3, 0, 0:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 0:	$\frac{C \cdot N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 0, 5:	$\frac{C \cdot N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 5:	$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{C^2 \cdot N_u^2}}$
1, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{C^2 \cdot N_u^2}}$	1, 0, 3, 4, 0:	$\frac{C \cdot N_u \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{C^2 \cdot N_u^2}}$	1, 0, 3, 0, 5:	$\frac{C \cdot N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{C^2 \cdot N_u^2}}$	1, 0, 3, 4, 5:	$\frac{C \cdot N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{C^2 \cdot N_u^2}}$
0, 2, 3, 0, 0:	$\frac{B \cdot C \cdot N_u}{\sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	0, 2, 3, 4, 0:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	0, 2, 3, 0, 5:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	0, 2, 3, 4, 5:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$
1, 2, 3, 0, 0:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	1, 2, 3, 4, 0:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	1, 2, 3, 0, 5:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	1, 2, 3, 4, 5:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$



$N_1 = 3.05811$
 $N_2 = 2.38980$
 $N_3 = 0.37988$
 $N_4 = 1.22018$
 $N_5 = 2.11150$
 $R = 1.89667$

Unit. $AB := 1$ Given. $N_1 := 3.05811$ $N_2 := 2.38980$ $N_3 := .37988$

$N_4 := 1.22018$ $N_5 := 2.11150$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{C \cdot N_u \cdot (B - A)}{A \cdot D \cdot E} = 1.89664$$

$$Num := \frac{C \cdot N_u \cdot (B - A)}{\sqrt{[C \cdot N_u \cdot (B - A)]^2}}$$

$$Den := \frac{A \cdot D \cdot E}{\sqrt{(A \cdot D \cdot E)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{C \cdot N_u \cdot (B - A) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - B)^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0: 0

0, 0, 0, 4, 0: 0

0, 0, 0, 0, 5: 0

0, 0, 0, 4, 5: 0

$$1, 0, 0, 0, 0: \quad \frac{N_u \cdot (A - 1) \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

$$1, 0, 0, 4, 0: \quad \frac{N_u \cdot (A - 1) \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

$$1, 0, 0, 0, 5: \quad \frac{N_u \cdot (A - 1) \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

$$1, 0, 0, 4, 5: \quad \frac{N_u \cdot (A - 1) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

$$0, 2, 0, 0, 0: \quad \frac{N_u \cdot (B - 1)}{\sqrt{N_u^2 \cdot (B - 1)^2}}$$

$$0, 2, 0, 4, 0: \quad \frac{N_u \cdot (B - 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

$$0, 2, 0, 0, 5: \quad \frac{N_u \cdot (B - 1) \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

$$0, 2, 0, 4, 5: \quad \frac{N_u \cdot (B - 1) \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

$$1, 2, 0, 0, 0: \quad \frac{N_u \cdot \sqrt{A^2} \cdot (A - B)}{A \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

$$1, 2, 0, 4, 0: \quad \frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A - B)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

$$1, 2, 0, 0, 5: \quad \frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A - B)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

$$1, 2, 0, 4, 5: \quad \frac{N_u \cdot (A - B) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

0, 0, 3, 0, 0: 0

0, 0, 3, 4, 0: 0

0, 0, 3, 0, 5: 0

0, 0, 3, 4, 5: 0

$$1, 0, 3, 0, 0: \quad \frac{C \cdot N_u \cdot (A - 1) \cdot \sqrt{A^2}}{A \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - 1)^2}}$$

$$1, 0, 3, 4, 0: \quad \frac{C \cdot N_u \cdot (A - 1) \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - 1)^2}}$$

$$1, 0, 3, 0, 5: \quad \frac{C \cdot N_u \cdot (A - 1) \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - 1)^2}}$$

$$1, 0, 3, 4, 5: \quad \frac{C \cdot N_u \cdot (A - 1) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - 1)^2}}$$

$$0, 2, 3, 0, 0: \quad \frac{C \cdot N_u \cdot (B - 1)}{\sqrt{C^2 \cdot N_u^2 \cdot (B - 1)^2}}$$

$$0, 2, 3, 4, 0: \quad \frac{C \cdot N_u \cdot (B - 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B - 1)^2}}$$

$$0, 2, 3, 0, 5: \quad \frac{C \cdot N_u \cdot (B - 1) \cdot \sqrt{E^2}}{E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B - 1)^2}}$$

$$0, 2, 3, 4, 5: \quad \frac{C \cdot N_u \cdot (B - 1) \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B - 1)^2}}$$

$$1, 2, 3, 0, 0: \quad \frac{C \cdot N_u \cdot \sqrt{A^2} \cdot (A - B)}{A \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - B)^2}}$$

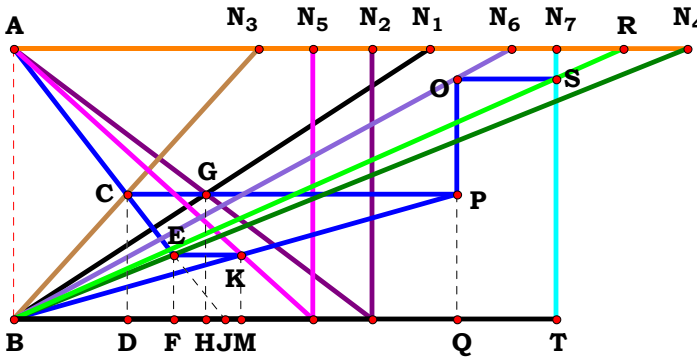
$$1, 2, 3, 4, 0: \quad \frac{C \cdot N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A - B)}{A \cdot D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - B)^2}}$$

$$1, 2, 3, 0, 5: \quad \frac{C \cdot N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A - B)}{A \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - B)^2}}$$

$$1, 2, 3, 4, 5: \quad \frac{C \cdot N_u \cdot (B - A) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - B)^2}}$$



Descriptions.



N₁ = 1.53745
N₂ = 1.32436
N₃ = 0.90291
N₄ = 2.48902
N₅ = 1.10418
N₆ = 1.84030
N₇ = 2.00118
R = 2.25213

Unit. AB := 1 Given. N₁ := 1.53745 N₂ := 1.32436 N₃ := .90291 N₄ := 2.48902
N₅ := 1.10418 N₆ := 1.84030 N₇ := 2.00118

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$ F := $\frac{N_u}{N_6}$ G := $\frac{N_u}{N_7}$

$\frac{D \cdot E \cdot N_u \cdot (A + B)}{B \cdot C \cdot F \cdot G} = 2.252116$

Num := $\frac{D \cdot E \cdot N_u \cdot (A + B)}{\sqrt{[D \cdot E \cdot N_u \cdot (A + B)]^2}}$

Den := $\frac{B \cdot C \cdot F \cdot G}{\sqrt{(B \cdot C \cdot F \cdot G)^2}}$

L := $\frac{Num}{Den}$

Definitions.

Num = 1 Den = 1 L = 1

$L - \frac{D \cdot E \cdot N_u \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot F^2 \cdot G^2}}{B \cdot C \cdot F \cdot G \cdot \sqrt{D^2 \cdot E^2 \cdot N_u^2 \cdot (A + B)^2}} = 0$



For 7 variables there are 128 subsets.

0, 0, 0, 0, 0, 0, 0, 0: $\frac{N_u}{\sqrt{N_u^2}}$

1, 0, 0, 0, 0, 0, 0, 0: $\frac{N_u \cdot (A + 1)}{\sqrt{N_u^2 \cdot (A + 1)^2}}$

0, 2, 0, 0, 0, 0, 0, 0: $\frac{N_u \cdot (B + 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$

1, 2, 0, 0, 0, 0, 0, 0: $\frac{N_u \cdot \sqrt{B^2} \cdot (A + B)}{B \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$

0, 0, 3, 0, 0, 0, 0, 0: $\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$

1, 0, 3, 0, 0, 0, 0, 0: $\frac{N_u \cdot (A + 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$

0, 2, 3, 0, 0, 0, 0, 0: $\frac{N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$

1, 2, 3, 0, 0, 0, 0, 0: $\frac{N_u \cdot \sqrt{B^2 \cdot C^2} \cdot (A + B)}{B \cdot C \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$

0, 0, 0, 4, 0, 0, 0, 0: $\frac{D \cdot N_u}{\sqrt{D^2 \cdot N_u^2}}$

1, 0, 0, 4, 0, 0, 0, 0: $\frac{D \cdot N_u \cdot (A + 1)}{\sqrt{D^2 \cdot N_u^2 \cdot (A + 1)^2}}$

0, 2, 0, 4, 0, 0, 0, 0: $\frac{D \cdot N_u \cdot (B + 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B + 1)^2}}$

1, 2, 0, 4, 0, 0, 0, 0: $\frac{D \cdot N_u \cdot \sqrt{B^2} \cdot (A + B)}{B \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + B)^2}}$

0, 0, 3, 4, 0, 0, 0, 0: $\frac{D \cdot N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{D^2 \cdot N_u^2}}$

1, 0, 3, 4, 0, 0, 0, 0: $\frac{D \cdot N_u \cdot (A + 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + 1)^2}}$

0, 2, 3, 4, 0, 0, 0, 0: $\frac{D \cdot N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B + 1)^2}}$

1, 2, 3, 4, 0, 0, 0, 0: $\frac{D \cdot N_u \cdot \sqrt{B^2 \cdot C^2} \cdot (A + B)}{B \cdot C \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + B)^2}}$



$$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$$

$$\frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + 1)}{\sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + 1)^2}}$$

$$\mathbf{0}, 2, \mathbf{0}, \mathbf{0}, 5, \mathbf{0}, \mathbf{0}: \frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} + 1) \cdot \sqrt{\mathbf{B}^2}}{\mathbf{B} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} + 1)^2}}$$

$$\mathbf{1}, \mathbf{2}, \mathbf{0}, \mathbf{0}, \mathbf{5}, \mathbf{0}, \mathbf{0}: \frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B}^2} \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{B} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot (\mathbf{A} + \mathbf{B})^2}$$

$$\mathbf{0}, \mathbf{0}, \mathbf{3}, \mathbf{0}, \mathbf{5}, \mathbf{0}, \mathbf{0}: \frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^2}}{\mathbf{C} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$$

$$\frac{\mathbf{1}, \mathbf{0}, \mathbf{3}, \mathbf{0}, \mathbf{5}, \mathbf{0}, \mathbf{0}: \quad \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{1}) \cdot \sqrt{\mathbf{C}^2}}{\mathbf{C} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{1})^2}}$$

$$\frac{\mathbf{0}, 2, 3, 0, 5, 0, 0: \quad \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} + 1) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2}}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} + 1)^2}}$$

$$\frac{\mathbf{1}, \mathbf{2}, \mathbf{3}, \mathbf{0}, \mathbf{5}, \mathbf{0}, \mathbf{0}: \quad \frac{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2} \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot (\mathbf{A} + \mathbf{B})^2}}$$

$$\frac{0, 0, 0, 4, 5, 0, 0: \quad \mathbf{D \cdot E \cdot N_u}}{\sqrt{\mathbf{D^2 \cdot E^2 \cdot N_u^2}}}$$

$$\frac{\mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + 1)}{\sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + 1)^2}}$$

$$\mathbf{0}, 2, \mathbf{0}, 4, 5, \mathbf{0}, \mathbf{0}: \frac{\mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} + 1) \cdot \sqrt{\mathbf{B}^2}}{\mathbf{B} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} + 1)^2}}$$

$$\mathbf{1}, \mathbf{2}, \mathbf{0}, \mathbf{4}, \mathbf{5}, \mathbf{0}, \mathbf{0}: \frac{\mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B}^2} \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{B} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B})^2}}$$

$$\frac{\mathbf{0}, \mathbf{0}, \mathbf{3}, \mathbf{4}, \mathbf{5}, \mathbf{0}, \mathbf{0}: \quad \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^2}}{\mathbf{C} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$$

$$\frac{\mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + 1) \cdot \sqrt{\mathbf{C}^2}}{\mathbf{C} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + 1)^2}}$$

$$\frac{\mathbf{0}, \mathbf{2}, \mathbf{3}, \mathbf{4}, \mathbf{5}, \mathbf{0}, \mathbf{0}: \quad \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} + \mathbf{1}) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2}}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} + \mathbf{1})^2}}$$

$$\frac{\mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2} \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot (\mathbf{A} + \mathbf{B})^2}$$

Amos

0, 0, 0, 0, 0, 6, 0:	$\frac{N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0, 6, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 2, 0, 0, 0, 6, 0:	$\frac{N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot F^2}}{B \cdot F \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$
1, 2, 0, 0, 0, 6, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (A + B)}{B \cdot F \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$
0, 0, 3, 0, 0, 6, 0:	$\frac{N_u \cdot \sqrt{C^2 \cdot F^2}}{C \cdot F \cdot \sqrt{N_u^2}}$
1, 0, 3, 0, 0, 6, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{C^2 \cdot F^2}}{C \cdot F \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$
0, 2, 3, 0, 0, 6, 0:	$\frac{N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot C^2 \cdot F^2}}{B \cdot C \cdot F \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$
1, 2, 3, 0, 0, 6, 0:	$\frac{N_u \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot F^2}}{B \cdot C \cdot F \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$

0, 0, 0, 4, 0, 6, 0:	$\frac{D \cdot N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 4, 0, 6, 0:	$\frac{D \cdot N_u \cdot (A + 1) \cdot \sqrt{F^2}}{F \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + 1)^2}}$
0, 2, 0, 4, 0, 6, 0:	$\frac{D \cdot N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot F^2}}{B \cdot F \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B + 1)^2}}$
1, 2, 0, 4, 0, 6, 0:	$\frac{D \cdot N_u \cdot \sqrt{B^2 \cdot F^2} \cdot (A + B)}{B \cdot F \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + B)^2}}$
0, 0, 3, 4, 0, 6, 0:	$\frac{D \cdot N_u \cdot \sqrt{C^2 \cdot F^2}}{C \cdot F \cdot \sqrt{D^2 \cdot N_u^2}}$
1, 0, 3, 4, 0, 6, 0:	$\frac{D \cdot N_u \cdot (A + 1) \cdot \sqrt{C^2 \cdot F^2}}{C \cdot F \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + 1)^2}}$
0, 2, 3, 4, 0, 6, 0:	$\frac{D \cdot N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot C^2 \cdot F^2}}{B \cdot C \cdot F \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B + 1)^2}}$
1, 2, 3, 4, 0, 6, 0:	$\frac{D \cdot N_u \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot F^2}}{B \cdot C \cdot F \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + B)^2}}$



0, 0, 0, 0, 0, 0, 7:

$$\frac{N_u \cdot \sqrt{G^2}}{G \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 0, 0, 7:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{G^2}}{G \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$$

0, 2, 0, 0, 0, 0, 7:

$$\frac{N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot G^2}}{B \cdot G \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$$

1, 2, 0, 0, 0, 0, 7:

$$\frac{N_u \cdot \sqrt{B^2 \cdot G^2} \cdot (A + B)}{B \cdot G \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$$

0, 0, 3, 0, 0, 0, 7:

$$\frac{N_u \cdot \sqrt{C^2 \cdot G^2}}{C \cdot G \cdot \sqrt{N_u^2}}$$

1, 0, 3, 0, 0, 0, 7:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{C^2 \cdot G^2}}{C \cdot G \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$$

0, 2, 3, 0, 0, 0, 7:

$$\frac{N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot C^2 \cdot G^2}}{B \cdot C \cdot G \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$$

1, 2, 3, 0, 0, 0, 7:

$$\frac{N_u \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot G^2}}{B \cdot C \cdot G \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$$

0, 0, 0, 4, 0, 0, 7:

$$\frac{D \cdot N_u \cdot \sqrt{G^2}}{G \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 0, 4, 0, 0, 7:

$$\frac{D \cdot N_u \cdot (A + 1) \cdot \sqrt{G^2}}{G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + 1)^2}}$$

0, 2, 0, 4, 0, 0, 7:

$$\frac{D \cdot N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot G^2}}{B \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B + 1)^2}}$$

1, 2, 0, 4, 0, 0, 7:

$$\frac{D \cdot N_u \cdot \sqrt{B^2 \cdot G^2} \cdot (A + B)}{B \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + B)^2}}$$

0, 0, 3, 4, 0, 0, 7:

$$\frac{D \cdot N_u \cdot \sqrt{C^2 \cdot G^2}}{C \cdot G \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 3, 4, 0, 0, 7:

$$\frac{D \cdot N_u \cdot (A + 1) \cdot \sqrt{C^2 \cdot G^2}}{C \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + 1)^2}}$$

0, 2, 3, 4, 0, 0, 7:

$$\frac{D \cdot N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot C^2 \cdot G^2}}{B \cdot C \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B + 1)^2}}$$

1, 2, 3, 4, 0, 0, 7:

$$\frac{D \cdot N_u \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot G^2}}{B \cdot C \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + B)^2}}$$



0, 0, 0, 0, 0, 6, 7:

$$\frac{N_u \cdot \sqrt{F^2 \cdot G^2}}{F \cdot G \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 0, 6, 7:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{F^2 \cdot G^2}}{F \cdot G \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$$

0, 2, 0, 0, 0, 6, 7:

$$\frac{N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot F^2 \cdot G^2}}{B \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$$

1, 2, 0, 0, 0, 6, 7:

$$\frac{N_u \cdot (A + B) \cdot \sqrt{B^2 \cdot F^2 \cdot G^2}}{B \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$$

0, 0, 3, 0, 0, 6, 7:

$$\frac{N_u \cdot \sqrt{C^2 \cdot F^2 \cdot G^2}}{C \cdot F \cdot G \cdot \sqrt{N_u^2}}$$

1, 0, 3, 0, 0, 6, 7:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{C^2 \cdot F^2 \cdot G^2}}{C \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$$

0, 2, 3, 0, 0, 6, 7:

$$\frac{N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot C^2 \cdot F^2 \cdot G^2}}{B \cdot C \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$$

1, 2, 3, 0, 0, 6, 7:

$$\frac{N_u \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot F^2 \cdot G^2}}{B \cdot C \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$$

0, 0, 0, 4, 0, 6, 7:

$$\frac{D \cdot N_u \cdot \sqrt{F^2 \cdot G^2}}{F \cdot G \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 0, 4, 0, 6, 7:

$$\frac{D \cdot N_u \cdot (A + 1) \cdot \sqrt{F^2 \cdot G^2}}{F \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + 1)^2}}$$

0, 2, 0, 4, 0, 6, 7:

$$\frac{D \cdot N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot F^2 \cdot G^2}}{B \cdot F \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B + 1)^2}}$$

1, 2, 0, 4, 0, 6, 7:

$$\frac{D \cdot N_u \cdot (A + B) \cdot \sqrt{B^2 \cdot F^2 \cdot G^2}}{B \cdot F \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + B)^2}}$$

0, 0, 3, 4, 0, 6, 7:

$$\frac{D \cdot N_u \cdot \sqrt{C^2 \cdot F^2 \cdot G^2}}{C \cdot F \cdot G \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 3, 4, 0, 6, 7:

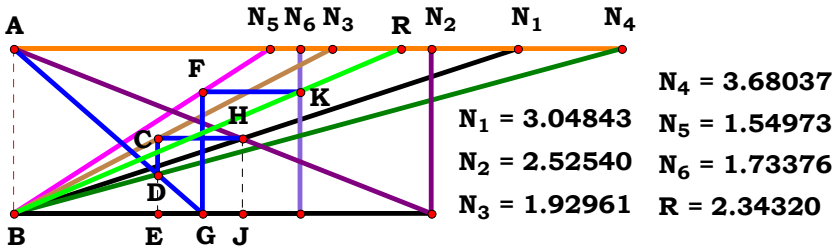
$$\frac{D \cdot N_u \cdot (A + 1) \cdot \sqrt{C^2 \cdot F^2 \cdot G^2}}{C \cdot F \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + 1)^2}}$$

0, 2, 3, 4, 0, 6, 7:

$$\frac{D \cdot N_u \cdot (B + 1) \cdot \sqrt{B^2 \cdot C^2 \cdot F^2 \cdot G^2}}{B \cdot C \cdot F \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B + 1)^2}}$$

1, 2, 3, 4, 0, 6, 7:

$$\frac{D \cdot N_u \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot F^2 \cdot G^2}}{B \cdot C \cdot F \cdot G \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A + B)^2}}$$



Unit. $AB := 1$ Given. $N_1 := 3.04843$ $N_2 := 2.52540$ $N_3 := 1.92961$
 $N_4 := 3.68037$ $N_5 := 1.54973$ $N_6 := 1.73376$

$$N_u := -3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

Descriptions.

$$\frac{N_u \cdot (A \cdot C - A \cdot D + B \cdot C)}{A \cdot E \cdot F} = 2.343206$$
$$Num := \frac{N_u \cdot (A \cdot C - A \cdot D + B \cdot C)}{\sqrt{[N_u \cdot (A \cdot C - A \cdot D + B \cdot C)]^2}}$$
$$Den := \frac{A \cdot E \cdot F}{\sqrt{(A \cdot E \cdot F)^2}} \quad L := \frac{Num}{Den}$$

Definitions.

$Num = -1$ $Den = -1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot F^2} \cdot (A \cdot C - A \cdot D + B \cdot C)}{A \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot C - A \cdot D + B \cdot C)^2}} = 0$$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2}}$
0, 2, 0, 0, 0, 0:	$\frac{B \cdot N_u}{\sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{A^2}}{A \cdot \sqrt{B^2 \cdot N_u^2}}$
0, 0, 3, 0, 0, 0:	$\frac{N_u \cdot (2 \cdot C - 1)}{\sqrt{N_u^2 \cdot (2 \cdot C - 1)^2}}$
1, 0, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (C - A + A \cdot C)}{A \cdot \sqrt{N_u^2 \cdot (C - A + A \cdot C)^2}}$
0, 2, 3, 0, 0, 0:	$\frac{N_u \cdot (C + B \cdot C - 1)}{\sqrt{N_u^2 \cdot (C + B \cdot C - 1)^2}}$
1, 2, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A \cdot C - A + B \cdot C)}{A \cdot \sqrt{N_u^2 \cdot (A \cdot C - A + B \cdot C)^2}}$

0, 0, 0, 4, 0, 0:	$-\frac{N_u \cdot (D - 2)}{\sqrt{N_u^2 \cdot (D - 2)^2}}$
1, 0, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A - A \cdot D + 1)}{A \cdot \sqrt{N_u^2 \cdot (A - A \cdot D + 1)^2}}$
0, 2, 0, 4, 0, 0:	$\frac{N_u \cdot (B - D + 1)}{\sqrt{N_u^2 \cdot (B - D + 1)^2}}$
1, 2, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A + B - A \cdot D)}{A \cdot \sqrt{N_u^2 \cdot (A + B - A \cdot D)^2}}$
0, 0, 3, 4, 0, 0:	$-\frac{N_u \cdot (D - 2 \cdot C)}{\sqrt{N_u^2 \cdot (D - 2 \cdot C)^2}}$
1, 0, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (C + A \cdot C - A \cdot D)}{A \cdot \sqrt{N_u^2 \cdot (C + A \cdot C - A \cdot D)^2}}$
0, 2, 3, 4, 0, 0:	$\frac{N_u \cdot (C - D + B \cdot C)}{\sqrt{N_u^2 \cdot (C - D + B \cdot C)^2}}$
1, 2, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A \cdot C - A \cdot D + B \cdot C)}{A \cdot \sqrt{N_u^2 \cdot (A \cdot C - A \cdot D + B \cdot C)^2}}$



0, 0, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{N_u^2}}$
0, 2, 0, 0, 5, 0:	$\frac{B \cdot N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 5, 0:	$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{B^2 \cdot N_u^2}}$
0, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{E^2} \cdot (2 \cdot C - 1)}{E \cdot \sqrt{N_u^2} \cdot (2 \cdot C - 1)^2}$
1, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (C - A + A \cdot C)}{A \cdot E \cdot \sqrt{N_u^2} \cdot (C - A + A \cdot C)^2}$
0, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{E^2} \cdot (C + B \cdot C - 1)}{E \cdot \sqrt{N_u^2} \cdot (C + B \cdot C - 1)^2}$
1, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A \cdot C - A + B \cdot C)}{A \cdot E \cdot \sqrt{N_u^2} \cdot (A \cdot C - A + B \cdot C)^2}$

0, 0, 0, 4, 5, 0:	$-\frac{N_u \cdot (D - 2) \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2} \cdot (D - 2)^2}$
1, 0, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A - A \cdot D + 1)}{A \cdot E \cdot \sqrt{N_u^2} \cdot (A - A \cdot D + 1)^2}$
0, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{E^2} \cdot (B - D + 1)}{E \cdot \sqrt{N_u^2} \cdot (B - D + 1)^2}$
1, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A + B - A \cdot D)}{A \cdot E \cdot \sqrt{N_u^2} \cdot (A + B - A \cdot D)^2}$
0, 0, 3, 4, 5, 0:	$-\frac{N_u \cdot \sqrt{E^2} \cdot (D - 2 \cdot C)}{E \cdot \sqrt{N_u^2} \cdot (D - 2 \cdot C)^2}$
1, 0, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (C + A \cdot C - A \cdot D)}{A \cdot E \cdot \sqrt{N_u^2} \cdot (C + A \cdot C - A \cdot D)^2}$
0, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{E^2} \cdot (C - D + B \cdot C)}{E \cdot \sqrt{N_u^2} \cdot (C - D + B \cdot C)^2}$
1, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A \cdot C - A \cdot D + B \cdot C)}{A \cdot E \cdot \sqrt{N_u^2} \cdot (A \cdot C - A \cdot D + B \cdot C)^2}$

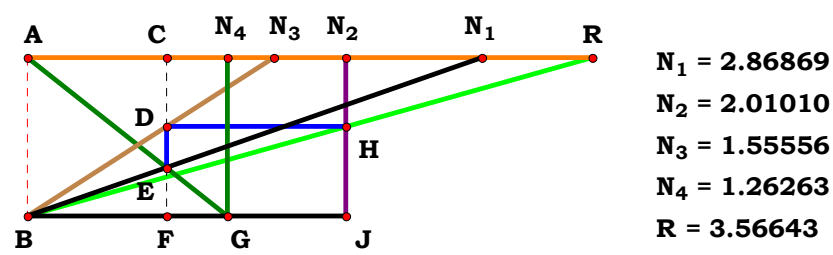


0, 0, 0, 0, 0, 6:	$\frac{N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2}}{A \cdot F \cdot \sqrt{N_u^2}}$
0, 2, 0, 0, 0, 6:	$\frac{B \cdot N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 0, 6:	$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot F^2}}{A \cdot F \cdot \sqrt{B^2 \cdot N_u^2}}$
0, 0, 3, 0, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (2 \cdot C - 1)}{F \cdot \sqrt{N_u^2} \cdot (2 \cdot C - 1)^2}$
1, 0, 3, 0, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (C - A + A \cdot C)}{A \cdot F \cdot \sqrt{N_u^2} \cdot (C - A + A \cdot C)^2}$
0, 2, 3, 0, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (C + B \cdot C - 1)}{F \cdot \sqrt{N_u^2} \cdot (C + B \cdot C - 1)^2}$
1, 2, 3, 0, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A \cdot C - A + B \cdot C)}{A \cdot F \cdot \sqrt{N_u^2} \cdot (A \cdot C - A + B \cdot C)^2}$

0, 0, 0, 4, 0, 6:	$\frac{N_u \cdot (D - 2) \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2} \cdot (D - 2)^2}$
1, 0, 0, 4, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A - A \cdot D + 1)}{A \cdot F \cdot \sqrt{N_u^2} \cdot (A - A \cdot D + 1)^2}$
0, 2, 0, 4, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (B - D + 1)}{F \cdot \sqrt{N_u^2} \cdot (B - D + 1)^2}$
1, 2, 0, 4, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A + B - A \cdot D)}{A \cdot F \cdot \sqrt{N_u^2} \cdot (A + B - A \cdot D)^2}$
0, 0, 3, 4, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (D - 2 \cdot C)}{F \cdot \sqrt{N_u^2} \cdot (D - 2 \cdot C)^2}$
1, 0, 3, 4, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (C + A \cdot C - A \cdot D)}{A \cdot F \cdot \sqrt{N_u^2} \cdot (C + A \cdot C - A \cdot D)^2}$
0, 2, 3, 4, 0, 6:	$\frac{N_u \cdot \sqrt{F^2} \cdot (C - D + B \cdot C)}{F \cdot \sqrt{N_u^2} \cdot (C - D + B \cdot C)^2}$
1, 2, 3, 4, 0, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot F^2} \cdot (A \cdot C - A \cdot D + B \cdot C)}{A \cdot F \cdot \sqrt{N_u^2} \cdot (A \cdot C - A \cdot D + B \cdot C)^2}$

0, 0, 0, 0, 5, 6:	$\frac{N_u \cdot \sqrt{E^2 \cdot F^2}}{E \cdot F \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 5, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot F^2}}{A \cdot E \cdot F \cdot \sqrt{N_u^2}}$
0, 2, 0, 0, 5, 6:	$\frac{B \cdot N_u \cdot \sqrt{E^2 \cdot F^2}}{E \cdot F \cdot \sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 5, 6:	$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot E^2 \cdot F^2}}{A \cdot E \cdot F \cdot \sqrt{B^2 \cdot N_u^2}}$
0, 0, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (2 \cdot C - 1)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (2 \cdot C - 1)^2}}$
1, 0, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot F^2} \cdot (C - A + A \cdot C)}{A \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (C - A + A \cdot C)^2}}$
0, 2, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (C + B \cdot C - 1)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (C + B \cdot C - 1)^2}}$
1, 2, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot F^2} \cdot (A \cdot C - A + B \cdot C)}{A \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot C - A + B \cdot C)^2}}$

0, 0, 0, 4, 5, 6:	$\frac{N_u \cdot (D - 2) \cdot \sqrt{E^2 \cdot F^2}}{E \cdot F \cdot \sqrt{N_u^2 \cdot (D - 2)^2}}$
1, 0, 0, 4, 5, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot F^2} \cdot (A - A \cdot D + 1)}{A \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A - A \cdot D + 1)^2}}$
0, 2, 0, 4, 5, 6:	$\frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (B - D + 1)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (B - D + 1)^2}}$
1, 2, 0, 4, 5, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot F^2} \cdot (A + B - A \cdot D)}{A \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A + B - A \cdot D)^2}}$
0, 0, 3, 4, 5, 6:	$\frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (D - 2 \cdot C)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (D - 2 \cdot C)^2}}$
1, 0, 3, 4, 5, 6:	$\frac{N_u \cdot (C + A \cdot C - A \cdot D) \cdot \sqrt{A^2 \cdot E^2 \cdot F^2}}{A \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (C + A \cdot C - A \cdot D)^2}}$
0, 2, 3, 4, 5, 6:	$\frac{N_u \cdot \sqrt{E^2 \cdot F^2} \cdot (C - D + B \cdot C)}{E \cdot F \cdot \sqrt{N_u^2 \cdot (C - D + B \cdot C)^2}}$
1, 2, 3, 4, 5, 6:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot F^2} \cdot (A \cdot C - A \cdot D + B \cdot C)}{A \cdot E \cdot F \cdot \sqrt{N_u^2 \cdot (A \cdot C - A \cdot D + B \cdot C)^2}}$



Unit. $AB := 1$ Given. $N_1 := 2.86869$ $N_2 := 2.01010$ $N_3 := 1.55556$ $N_4 := 1.26263$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (A + D)}{B \cdot C} = 3.566429$$

$$Num := \frac{N_u \cdot (A + D)}{\sqrt{[N_u \cdot (A + D)]^2}}$$

$$Den := \frac{B \cdot C}{\sqrt{(B \cdot C)^2}} \quad L := \frac{Num}{Den}$$

Definitions.

$Num = 1 \quad Den = 1 \quad L = 1$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot C^2 \cdot (A + D)}}{B \cdot C \cdot \sqrt{N_u^2 \cdot (A + D)^2}} = 0$$

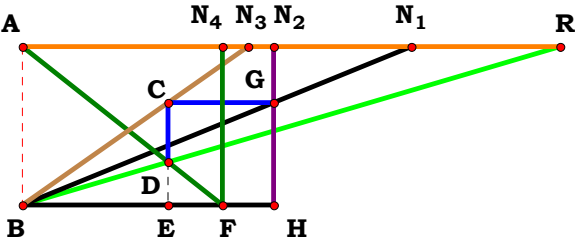


For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot (D + 1)}{\sqrt{N_u^2 \cdot (D + 1)^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot (A + 1)}{\sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot (A + D)}{\sqrt{N_u^2 \cdot (A + D)^2}}$
0, 2, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$	0, 2, 0, 4:	$\frac{N_u \cdot (D + 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (D + 1)^2}}$
1, 2, 0, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 2, 0, 4:	$\frac{N_u \cdot \sqrt{B^2} \cdot (A + D)}{B \cdot \sqrt{N_u^2 \cdot (A + D)^2}}$
0, 0, 3, 0:	$\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot (D + 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (D + 1)^2}}$
1, 0, 3, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 0, 3, 4:	$\frac{N_u \cdot \sqrt{C^2} \cdot (A + D)}{C \cdot \sqrt{N_u^2 \cdot (A + D)^2}}$
0, 2, 3, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{N_u^2}}$	0, 2, 3, 4:	$\frac{N_u \cdot (D + 1) \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{N_u^2 \cdot (D + 1)^2}}$
1, 2, 3, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 2, 3, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot C^2} \cdot (A + D)}{B \cdot C \cdot \sqrt{N_u^2 \cdot (A + D)^2}}$



1CST6R4



$N_1 = 2.45455$
 $N_2 = 1.58586$
 $N_3 = 1.42424$
 $N_4 = 1.26263$
 $R = 3.39291$

Unit. $AB := 1$ Given. $N_1 := 2.45455$ $N_2 := 1.58586$ $N_3 := 1.42424$ $N_4 := 1.26263$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{A \cdot N_u}{B \cdot C - A \cdot D} = 3.392845$$

$$\text{Num} := \frac{A \cdot N_u}{\sqrt{(A \cdot N_u)^2}}$$

$$\text{Den} := \frac{B \cdot C - A \cdot D}{\sqrt{(B \cdot C - A \cdot D)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

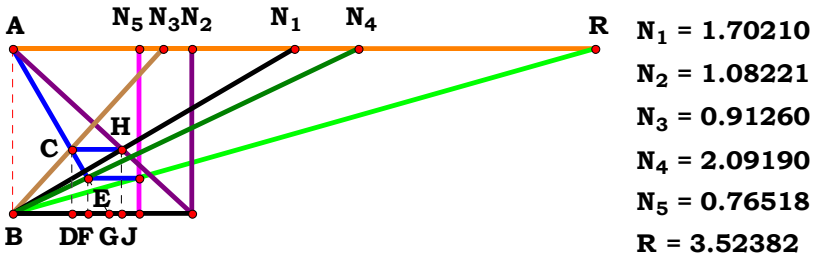
$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{A \cdot N_u \cdot \sqrt{(A \cdot D - B \cdot C)^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (B \cdot C - A \cdot D)}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	0	0, 0, 0, 4:	$-\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{D}-1)^2}}{(\mathbf{D}-1) \cdot \sqrt{\mathbf{N_u}^2}}$
1, 0, 0, 0:	$-\frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{A}-1)^2}}{(\mathbf{A}-1) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2}}$	1, 0, 0, 4:	$-\frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{A} \cdot \mathbf{D}-1)^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2} \cdot (\mathbf{A} \cdot \mathbf{D}-1)}$
0, 2, 0, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{B}-1)^2}}{(\mathbf{B}-1) \cdot \sqrt{\mathbf{N_u}^2}}$	0, 2, 0, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{B}-\mathbf{D})^2}}{\sqrt{\mathbf{N_u}^2} \cdot (\mathbf{B}-\mathbf{D})}$
1, 2, 0, 0:	$-\frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{A}-\mathbf{B})^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2} \cdot (\mathbf{A}-\mathbf{B})}$	1, 2, 0, 4:	$\frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{B}-\mathbf{A} \cdot \mathbf{D})^2}}{(\mathbf{B}-\mathbf{A} \cdot \mathbf{D}) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2}}$
0, 0, 3, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{C}-1)^2}}{(\mathbf{C}-1) \cdot \sqrt{\mathbf{N_u}^2}}$	0, 0, 3, 4:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{C}-\mathbf{D})^2}}{\sqrt{\mathbf{N_u}^2} \cdot (\mathbf{C}-\mathbf{D})}$
1, 0, 3, 0:	$-\frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{A}-\mathbf{C})^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2} \cdot (\mathbf{A}-\mathbf{C})}$	1, 0, 3, 4:	$\frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{C}-\mathbf{A} \cdot \mathbf{D})^2}}{(\mathbf{C}-\mathbf{A} \cdot \mathbf{D}) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2}}$
0, 2, 3, 0:	$\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{B} \cdot \mathbf{C}-1)^2}}{\sqrt{\mathbf{N_u}^2} \cdot (\mathbf{B} \cdot \mathbf{C}-1)}$	0, 2, 3, 4:	$-\frac{\mathbf{N_u} \cdot \sqrt{(\mathbf{D}-\mathbf{B} \cdot \mathbf{C})^2}}{(\mathbf{D}-\mathbf{B} \cdot \mathbf{C}) \cdot \sqrt{\mathbf{N_u}^2}}$
1, 2, 3, 0:	$-\frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{A}-\mathbf{B} \cdot \mathbf{C})^2}}{(\mathbf{A}-\mathbf{B} \cdot \mathbf{C}) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2}}$	1, 2, 3, 4:	$\frac{\mathbf{A} \cdot \mathbf{N_u} \cdot \sqrt{(\mathbf{A} \cdot \mathbf{D}-\mathbf{B} \cdot \mathbf{C})^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^2} \cdot (\mathbf{B} \cdot \mathbf{C}-\mathbf{A} \cdot \mathbf{D})}$



Unit. $AB := 1$ Given. $N_1 := 1.70210$ $N_2 := 1.08221$ $N_3 := .91260$
 $N_4 := 2.09190$ $N_5 := .76518$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (A \cdot D + B \cdot C)}{A \cdot D \cdot E} = 3.523836$$

$$Num := \frac{N_u \cdot (A \cdot D + B \cdot C)}{\sqrt{[N_u \cdot (A \cdot D + B \cdot C)]^2}}$$

$$Den := \frac{A \cdot D \cdot E}{\sqrt{(A \cdot D \cdot E)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (A \cdot D + B \cdot C) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A \cdot D + B \cdot C)^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$\frac{N_u \cdot (D + 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (D + 1)^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$	1, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A \cdot D + 1)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A \cdot D + 1)^2}}$
0, 2, 0, 0, 0:	$\frac{N_u \cdot (B + 1)}{\sqrt{N_u^2 \cdot (B + 1)^2}}$	0, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (B + D)}{D \cdot \sqrt{N_u^2 \cdot (B + D)^2}}$
1, 2, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A + B)}{A \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$	1, 2, 0, 4, 0:	$\frac{N_u \cdot (B + A \cdot D) \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{N_u^2 \cdot (B + A \cdot D)^2}}$
0, 0, 3, 0, 0:	$\frac{N_u \cdot (C + 1)}{\sqrt{N_u^2 \cdot (C + 1)^2}}$	0, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (C + D)}{D \cdot \sqrt{N_u^2 \cdot (C + D)^2}}$
1, 0, 3, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A + C)}{A \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$	1, 0, 3, 4, 0:	$\frac{N_u \cdot (C + A \cdot D) \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{N_u^2 \cdot (C + A \cdot D)^2}}$
0, 2, 3, 0, 0:	$\frac{N_u \cdot (B \cdot C + 1)}{\sqrt{N_u^2 \cdot (B \cdot C + 1)^2}}$	0, 2, 3, 4, 0:	$\frac{N_u \cdot (D + B \cdot C) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (D + B \cdot C)^2}}$
1, 2, 3, 0, 0:	$\frac{N_u \cdot (A + B \cdot C) \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2 \cdot (A + B \cdot C)^2}}$	1, 2, 3, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A \cdot D + B \cdot C)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A \cdot D + B \cdot C)^2}}$



0, 0, 0, 0, 5:

$$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 5:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$$

0, 2, 0, 0, 5:

$$\frac{N_u \cdot (B + 1) \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2 \cdot (B + 1)^2}}$$

1, 2, 0, 0, 5:

$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A + B)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A + B)^2}}$$

0, 0, 3, 0, 5:

$$\frac{N_u \cdot (C + 1) \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2 \cdot (C + 1)^2}}$$

1, 0, 3, 0, 5:

$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A + C)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A + C)^2}}$$

0, 2, 3, 0, 5:

$$\frac{N_u \cdot \sqrt{E^2} \cdot (B \cdot C + 1)}{E \cdot \sqrt{N_u^2 \cdot (B \cdot C + 1)^2}}$$

1, 2, 3, 0, 5:

$$\frac{N_u \cdot (A + B \cdot C) \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A + B \cdot C)^2}}$$

0, 0, 0, 4, 5:

$$\frac{N_u \cdot (D + 1) \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{N_u^2 \cdot (D + 1)^2}}$$

1, 0, 0, 4, 5:

$$\frac{N_u \cdot (A \cdot D + 1) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A \cdot D + 1)^2}}$$

0, 2, 0, 4, 5:

$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (B + D)}{D \cdot E \cdot \sqrt{N_u^2 \cdot (B + D)^2}}$$

1, 2, 0, 4, 5:

$$\frac{N_u \cdot (B + A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (B + A \cdot D)^2}}$$

0, 0, 3, 4, 5:

$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (C + D)}{D \cdot E \cdot \sqrt{N_u^2 \cdot (C + D)^2}}$$

1, 0, 3, 4, 5:

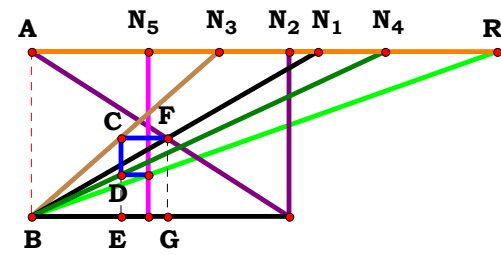
$$\frac{N_u \cdot (C + A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (C + A \cdot D)^2}}$$

0, 2, 3, 4, 5:

$$\frac{N_u \cdot (D + B \cdot C) \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{N_u^2 \cdot (D + B \cdot C)^2}}$$

1, 2, 3, 4, 5:

$$\frac{N_u \cdot (A \cdot D + B \cdot C) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A \cdot D + B \cdot C)^2}}$$



N₁ = 1.73116
N₂ = 1.55682
N₃ = 1.13537
N₄ = 2.14033
N₅ = 0.70706
R = 2.81508

Unit. AB := 1 Given. $N_1 := 1.73116$ $N_2 := 1.55682$ $N_3 := 1.13537$
 $N_4 := 2.14033$ $N_5 := .70706$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{\mathbf{C \cdot N_u \cdot (A + B)}}{\mathbf{A \cdot D \cdot E}} = \mathbf{2.815078}$$

$$\mathbf{Num} := \frac{\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})]^2}}$$

$$\text{Den} := \frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E}}{\sqrt{(\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E})^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

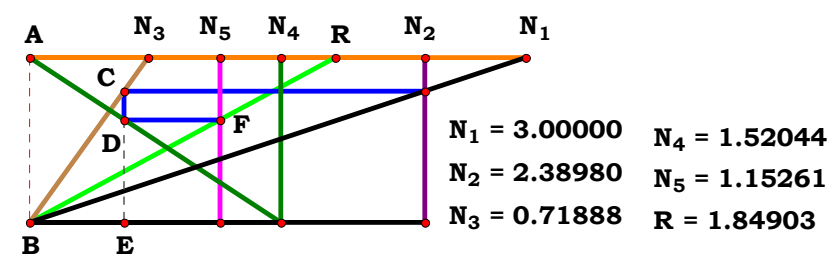
$$\mathbf{L} - \frac{\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{E}^2}}{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \cdot \sqrt{\mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B})^2}} = \mathbf{0}$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$	0, 0, 0, 0, 5:	$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$	0, 0, 0, 4, 5:	$\frac{N_u \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot (A+1) \cdot \sqrt{A^2}}{A \cdot \sqrt{N_u^2 \cdot (A+1)^2}}$	1, 0, 0, 4, 0:	$\frac{N_u \cdot (A+1) \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A+1)^2}}$	1, 0, 0, 0, 5:	$\frac{N_u \cdot (A+1) \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A+1)^2}}$	1, 0, 0, 4, 5:	$\frac{N_u \cdot (A+1) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A+1)^2}}$
0, 2, 0, 0, 0:	$\frac{N_u \cdot (B+1)}{\sqrt{N_u^2 \cdot (B+1)^2}}$	0, 2, 0, 4, 0:	$\frac{N_u \cdot (B+1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (B+1)^2}}$	0, 2, 0, 0, 5:	$\frac{N_u \cdot (B+1) \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2 \cdot (B+1)^2}}$	0, 2, 0, 4, 5:	$\frac{N_u \cdot (B+1) \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{N_u^2 \cdot (B+1)^2}}$
1, 2, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A+B)}{A \cdot \sqrt{N_u^2 \cdot (A+B)^2}}$	1, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A+B)}{A \cdot D \cdot \sqrt{N_u^2 \cdot (A+B)^2}}$	1, 2, 0, 0, 5:	$\frac{N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A+B)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A+B)^2}}$	1, 2, 0, 4, 5:	$\frac{N_u \cdot (A+B) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (A+B)^2}}$
0, 0, 3, 0, 0:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 0:	$\frac{C \cdot N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 0, 5:	$\frac{C \cdot N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 5:	$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{C^2 \cdot N_u^2}}$
1, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot (A+1) \cdot \sqrt{A^2}}{A \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A+1)^2}}$	1, 0, 3, 4, 0:	$\frac{C \cdot N_u \cdot (A+1) \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A+1)^2}}$	1, 0, 3, 0, 5:	$\frac{C \cdot N_u \cdot (A+1) \cdot \sqrt{A^2 \cdot E^2}}{A \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A+1)^2}}$	1, 0, 3, 4, 5:	$\frac{C \cdot N_u \cdot (A+1) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A+1)^2}}$
0, 2, 3, 0, 0:	$\frac{C \cdot N_u \cdot (B+1)}{\sqrt{C^2 \cdot N_u^2 \cdot (B+1)^2}}$	0, 2, 3, 4, 0:	$\frac{C \cdot N_u \cdot (B+1) \cdot \sqrt{D^2}}{D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B+1)^2}}$	0, 2, 3, 0, 5:	$\frac{C \cdot N_u \cdot (B+1) \cdot \sqrt{E^2}}{E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B+1)^2}}$	0, 2, 3, 4, 5:	$\frac{C \cdot N_u \cdot (B+1) \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B+1)^2}}$
1, 2, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{A^2} \cdot (A+B)}{A \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A+B)^2}}$	1, 2, 3, 4, 0:	$\frac{C \cdot N_u \cdot \sqrt{A^2 \cdot D^2} \cdot (A+B)}{A \cdot D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A+B)^2}}$	1, 2, 3, 0, 5:	$\frac{C \cdot N_u \cdot \sqrt{A^2 \cdot E^2} \cdot (A+B)}{A \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A+B)^2}}$	1, 2, 3, 4, 5:	$\frac{C \cdot N_u \cdot (A+B) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A+B)^2}}$

Descriptions.



Unit.	AB := 1	Given.	N₁ := 3	N₂ := 2.3898	N₃ := .71888
			N₄ := 1.52044	N₅ := 1.15261	
N_u := 3	A := $\frac{N_u}{N_1}$	B := $\frac{N_u}{N_2}$	C := $\frac{N_u}{N_3}$	D := $\frac{N_u}{N_4}$	E := $\frac{N_u}{N_5}$

$$\frac{\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u}{\mathbf{E} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D})} = 1.84903 \quad \mathbf{Num} := \frac{\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u}{\sqrt{(\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u)^2}} \quad \mathbf{Den} := \frac{\mathbf{E} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D})}{\sqrt{[\mathbf{E} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{E}^2 \cdot (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{C})^2}}{\mathbf{E} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D}) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	0	0, 0, 0, 4, 0:	$-\frac{N_u \cdot \sqrt{(D-1)^2}}{(D-1) \cdot \sqrt{N_u^2}}$	0, 0, 0, 0, 5:	0	0, 0, 0, 4, 5:	$-\frac{N_u \cdot \sqrt{E^2 \cdot (D-1)^2}}{E \cdot (D-1) \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0:	$-\frac{N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{N_u^2}}$	1, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{(A \cdot D - 1)^2}}{\sqrt{N_u^2} \cdot (A \cdot D - 1)}$	1, 0, 0, 0, 5:	$\frac{N_u \cdot \sqrt{E^2 \cdot (A-1)^2}}{E \cdot (A-1) \cdot \sqrt{N_u^2}}$	1, 0, 0, 4, 5:	$\frac{N_u \cdot \sqrt{E^2 \cdot (A \cdot D - 1)^2}}{E \cdot \sqrt{N_u^2} \cdot (A \cdot D - 1)}$
0, 2, 0, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{(B-1)^2}}{(B-1) \cdot \sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4, 0:	$\frac{B \cdot N_u \cdot \sqrt{(B-D)^2}}{\sqrt{B^2 \cdot N_u^2} \cdot (B-D)}$	0, 2, 0, 0, 5:	$\frac{B \cdot N_u \cdot \sqrt{E^2 \cdot (B-1)^2}}{E \cdot (B-1) \cdot \sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4, 5:	$\frac{B \cdot N_u \cdot \sqrt{E^2 \cdot (B-D)^2}}{E \cdot \sqrt{B^2 \cdot N_u^2} \cdot (B-D)}$
1, 2, 0, 0, 0:	$-\frac{B \cdot N_u \cdot \sqrt{(A-B)^2}}{\sqrt{B^2 \cdot N_u^2} \cdot (A-B)}$	1, 2, 0, 4, 0:	$\frac{B \cdot N_u \cdot \sqrt{(B-A \cdot D)^2}}{(B-A \cdot D) \cdot \sqrt{B^2 \cdot N_u^2}}$	1, 2, 0, 0, 5:	$\frac{B \cdot N_u \cdot \sqrt{E^2 \cdot (A-B)^2}}{E \cdot \sqrt{B^2 \cdot N_u^2} \cdot (A-B)}$	1, 2, 0, 4, 5:	$\frac{B \cdot N_u \cdot \sqrt{E^2 \cdot (B-A \cdot D)^2}}{E \cdot (B-A \cdot D) \cdot \sqrt{B^2 \cdot N_u^2}}$
0, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{(C-1)^2}}{(C-1) \cdot \sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 0:	$\frac{C \cdot N_u \cdot \sqrt{(C-D)^2}}{\sqrt{C^2 \cdot N_u^2} \cdot (C-D)}$	0, 0, 3, 0, 5:	$\frac{C \cdot N_u \cdot \sqrt{E^2 \cdot (C-1)^2}}{E \cdot (C-1) \cdot \sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 5:	$\frac{C \cdot N_u \cdot \sqrt{E^2 \cdot (C-D)^2}}{E \cdot \sqrt{C^2 \cdot N_u^2} \cdot (C-D)}$
1, 0, 3, 0, 0:	$-\frac{C \cdot N_u \cdot \sqrt{(A-C)^2}}{\sqrt{C^2 \cdot N_u^2} \cdot (A-C)}$	1, 0, 3, 4, 0:	$\frac{C \cdot N_u \cdot \sqrt{(C-A \cdot D)^2}}{(C-A \cdot D) \cdot \sqrt{C^2 \cdot N_u^2}}$	1, 0, 3, 0, 5:	$\frac{C \cdot N_u \cdot \sqrt{E^2 \cdot (A-C)^2}}{E \cdot \sqrt{C^2 \cdot N_u^2} \cdot (A-C)}$	1, 0, 3, 4, 5:	$\frac{C \cdot N_u \cdot \sqrt{E^2 \cdot (C-A \cdot D)^2}}{E \cdot (C-A \cdot D) \cdot \sqrt{C^2 \cdot N_u^2}}$
0, 2, 3, 0, 0:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{(B \cdot C - 1)^2}}{(B \cdot C - 1) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	0, 2, 3, 4, 0:	$-\frac{B \cdot C \cdot N_u \cdot \sqrt{(D - B \cdot C)^2}}{(D - B \cdot C) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	0, 2, 3, 0, 5:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{E^2 \cdot (B \cdot C - 1)^2}}{E \cdot (B \cdot C - 1) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	0, 2, 3, 4, 5:	$-\frac{B \cdot C \cdot N_u \cdot \sqrt{E^2 \cdot (D - B \cdot C)^2}}{E \cdot (D - B \cdot C) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$
1, 2, 3, 0, 0:	$-\frac{B \cdot C \cdot N_u \cdot \sqrt{(A - B \cdot C)^2}}{(A - B \cdot C) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	1, 2, 3, 4, 0:	$-\frac{B \cdot C \cdot N_u \cdot \sqrt{(A \cdot D - B \cdot C)^2}}{(A \cdot D - B \cdot C) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	1, 2, 3, 0, 5:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{E^2 \cdot (A - B \cdot C)^2}}{E \cdot (A - B \cdot C) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	1, 2, 3, 4, 5:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{E^2 \cdot (A \cdot D - B \cdot C)^2}}{E \cdot (B \cdot C - A \cdot D) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$



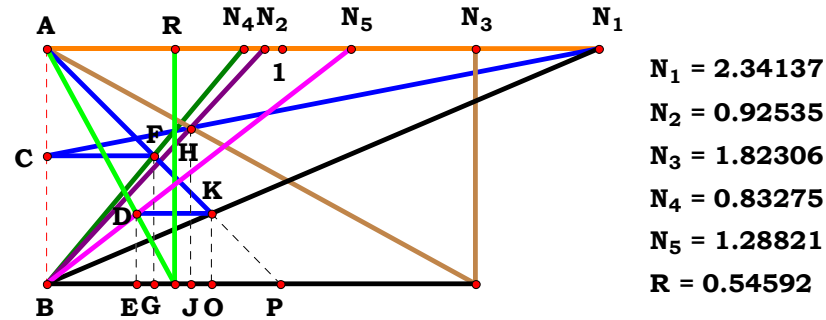
Descriptions.

$$\frac{A \cdot N_u \cdot (B - A)}{C \cdot D \cdot E} = 0.545916$$

Definitions.

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{A \cdot N_u \cdot (B - A) \cdot \sqrt{C^2 \cdot D^2 \cdot E^2}}{C \cdot D \cdot E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - B)^2}} = 0$$



$$\text{Unit. } AB := 1 \qquad \text{Given. } N_1 := 2.34137 \quad N_2 := .92535 \quad N_3 := 1.82306$$

$$N_4 := .83275 \quad N_5 := 1.28821$$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3} \qquad D := \frac{N_u}{N_4} \qquad E := \frac{N_u}{N_5}$$

$$\text{Den} := \frac{C \cdot D \cdot E}{\sqrt{(C \cdot D \cdot E)^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	0	0, 0, 0, 4, 0:	0	0, 0, 0, 0, 5:	0	0, 0, 0, 4, 5:	0
1, 0, 0, 0, 0:	$\frac{A \cdot N_u \cdot (A - 1)}{\sqrt{A^2 \cdot N_u^2 \cdot (A - 1)^2}}$	1, 0, 0, 4, 0:	$\frac{A \cdot N_u \cdot (A - 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - 1)^2}}$	1, 0, 0, 0, 5:	$\frac{A \cdot N_u \cdot (A - 1) \cdot \sqrt{E^2}}{E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - 1)^2}}$	1, 0, 0, 4, 5:	$\frac{A \cdot N_u \cdot (A - 1) \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - 1)^2}}$
0, 2, 0, 0, 0:	$\frac{N_u \cdot (B - 1)}{\sqrt{N_u^2 \cdot (B - 1)^2}}$	0, 2, 0, 4, 0:	$\frac{N_u \cdot (B - 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$	0, 2, 0, 0, 5:	$\frac{N_u \cdot (B - 1) \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$	0, 2, 0, 4, 5:	$\frac{N_u \cdot (B - 1) \cdot \sqrt{D^2 \cdot E^2}}{D \cdot E \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$
1, 2, 0, 0, 0:	$\frac{A \cdot N_u \cdot (A - B)}{\sqrt{A^2 \cdot N_u^2 \cdot (A - B)^2}}$	1, 2, 0, 4, 0:	$\frac{A \cdot N_u \cdot \sqrt{D^2} \cdot (A - B)}{D \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - B)^2}}$	1, 2, 0, 0, 5:	$\frac{A \cdot N_u \cdot \sqrt{E^2} \cdot (A - B)}{E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - B)^2}}$	1, 2, 0, 4, 5:	$\frac{A \cdot N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (A - B)}{D \cdot E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - B)^2}}$
0, 0, 3, 0, 0:	0	0, 0, 3, 4, 0:	0	0, 0, 3, 0, 5:	0	0, 0, 3, 4, 5:	0
1, 0, 3, 0, 0:	$\frac{A \cdot N_u \cdot (A - 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - 1)^2}}$	1, 0, 3, 4, 0:	$\frac{A \cdot N_u \cdot (A - 1) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - 1)^2}}$	1, 0, 3, 0, 5:	$\frac{A \cdot N_u \cdot (A - 1) \cdot \sqrt{C^2 \cdot E^2}}{C \cdot E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - 1)^2}}$	1, 0, 3, 4, 5:	$\frac{A \cdot N_u \cdot (A - 1) \cdot \sqrt{C^2 \cdot D^2 \cdot E^2}}{C \cdot D \cdot E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - 1)^2}}$
0, 2, 3, 0, 0:	$\frac{N_u \cdot (B - 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$	0, 2, 3, 4, 0:	$\frac{N_u \cdot (B - 1) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$	0, 2, 3, 0, 5:	$\frac{N_u \cdot (B - 1) \cdot \sqrt{C^2 \cdot E^2}}{C \cdot E \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$	0, 2, 3, 4, 5:	$\frac{N_u \cdot (B - 1) \cdot \sqrt{C^2 \cdot D^2 \cdot E^2}}{C \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$
1, 2, 3, 0, 0:	$\frac{A \cdot N_u \cdot \sqrt{C^2} \cdot (A - B)}{C \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - B)^2}}$	1, 2, 3, 4, 0:	$\frac{A \cdot N_u \cdot \sqrt{C^2 \cdot D^2} \cdot (A - B)}{C \cdot D \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - B)^2}}$	1, 2, 3, 0, 5:	$\frac{A \cdot N_u \cdot \sqrt{C^2 \cdot E^2} \cdot (A - B)}{C \cdot E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - B)^2}}$	1, 2, 3, 4, 5:	$\frac{A \cdot N_u \cdot (B - A) \cdot \sqrt{C^2 \cdot D^2 \cdot E^2}}{C \cdot D \cdot E \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A - B)^2}}$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

0, 0, 0, 4: 0

1, 0, 0, 0:
$$-\frac{N_u \cdot (A - 1)}{\sqrt{N_u^2 \cdot (A - 1)^2}}$$

1, 0, 0, 4:
$$-\frac{N_u \cdot (A - 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

0, 2, 0, 0:
$$\frac{N_u \cdot (B - 1)}{\sqrt{N_u^2 \cdot (B - 1)^2}}$$

0, 2, 0, 4:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

1, 2, 0, 0:
$$-\frac{N_u \cdot (A - B)}{\sqrt{N_u^2 \cdot (A - B)^2}}$$

1, 2, 0, 4:
$$-\frac{N_u \cdot \sqrt{D^2} \cdot (A - B)}{D \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

0, 0, 3, 0: 0

0, 0, 3, 4: 0

1, 0, 3, 0:
$$-\frac{N_u \cdot (A - 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

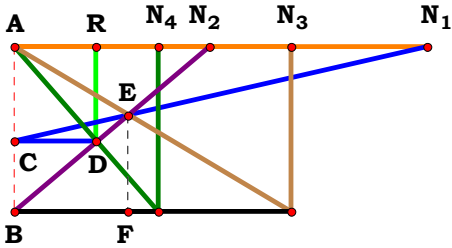
1, 0, 3, 4:
$$-\frac{N_u \cdot (A - 1) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}$$

0, 2, 3, 0:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

0, 2, 3, 4:
$$\frac{N_u \cdot (B - 1) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}$$

1, 2, 3, 0:
$$-\frac{N_u \cdot \sqrt{C^2} \cdot (A - B)}{C \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$

1, 2, 3, 4:
$$\frac{N_u \cdot \sqrt{C^2 \cdot D^2} \cdot (B - A)}{C \cdot D \cdot \sqrt{N_u^2 \cdot (A - B)^2}}$$



$N_1 = 2.49634$
 $N_2 = 1.17907$
 $N_3 = 1.67778$
 $N_4 = 0.87149$
 $R = 0.49775$

Unit. $AB := 1$ Given. $N_1 := 2.49634$ $N_2 := 1.17907$ $N_3 := 1.67778$ $N_4 := .87149$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$\frac{C \cdot N_u}{D \cdot (B - A + C)} = 0.497746$

$Num := \frac{C \cdot N_u}{\sqrt{(C \cdot N_u)^2}}$

$Den := \frac{D \cdot (B - A + C)}{\sqrt{[D \cdot (B - A + C)]^2}}$

$L := \frac{Num}{Den}$

Definitions.

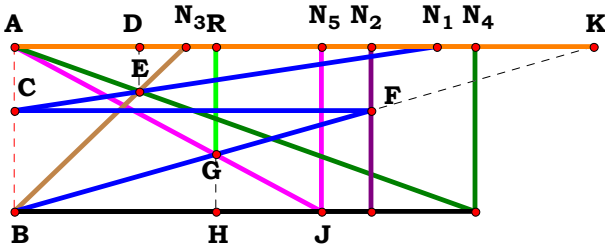
$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (B - A + C)^2}}{D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B - A + C)}} = 0$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(A-2)^2}}{(A-2) \cdot \sqrt{N_u^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2 \cdot (A-2)^2}}{D \cdot (A-2) \cdot \sqrt{N_u^2}}$
0, 2, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$	0, 2, 0, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2}}{B \cdot D \cdot \sqrt{N_u^2}}$
1, 2, 0, 0:	$\frac{N_u \cdot \sqrt{(B-A+1)^2}}{\sqrt{N_u^2} \cdot (B-A+1)}$	1, 2, 0, 4:	$\frac{N_u \cdot \sqrt{D^2 \cdot (B-A+1)^2}}{D \cdot \sqrt{N_u^2} \cdot (B-A+1)}$
0, 0, 3, 0:	$\frac{N_u \cdot \sqrt{C^2}}{\sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot \sqrt{C^2 \cdot D^2}}{D \cdot \sqrt{C^2 \cdot N_u^2}}$
1, 0, 3, 0:	$\frac{C \cdot N_u \cdot \sqrt{(C-A+1)^2}}{\sqrt{C^2 \cdot N_u^2} \cdot (C-A+1)}$	1, 0, 3, 4:	$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (C-A+1)^2}}{D \cdot \sqrt{C^2 \cdot N_u^2} \cdot (C-A+1)}$
0, 2, 3, 0:	$\frac{C \cdot N_u \cdot \sqrt{(B+C-1)^2}}{\sqrt{C^2 \cdot N_u^2} \cdot (B+C-1)}$	0, 2, 3, 4:	$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (B+C-1)^2}}{D \cdot \sqrt{C^2 \cdot N_u^2} \cdot (B+C-1)}$
1, 2, 3, 0:	$\frac{C \cdot N_u \cdot \sqrt{(B-A+C)^2}}{\sqrt{C^2 \cdot N_u^2} \cdot (B-A+C)}$	1, 2, 3, 4:	$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (B-A+C)^2}}{D \cdot \sqrt{C^2 \cdot N_u^2} \cdot (B-A+C)}$



$N_1 = 2.55445$
 $N_2 = 2.15734$
 $N_3 = 1.03851$
 $N_4 = 2.78928$
 $N_5 = 1.85967$
 $R = 1.21571$

Unit. $AB := 1$ Given. $N_1 := 2.55445$ $N_2 := 2.15734$ $N_3 := 1.03851$

$N_4 := 2.78928$ $N_5 := 1.85967$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (C - A + D)}{B \cdot C - A \cdot B - A \cdot E + C \cdot E + D \cdot E} = 1.215712$$
$$Num := \frac{N_u \cdot (C - A + D)}{\sqrt{[N_u \cdot (C - A + D)]^2}}$$
$$Den := \frac{B \cdot C - A \cdot B - A \cdot E + C \cdot E + D \cdot E}{\sqrt{(B \cdot C - A \cdot B - A \cdot E + C \cdot E + D \cdot E)^2}}$$
$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{(B \cdot C - A \cdot B - A \cdot E + C \cdot E + D \cdot E)^2} \cdot (A - C - D)}{\sqrt{N_u^2 \cdot (C - A + D)^2 \cdot (A \cdot B - B \cdot C + A \cdot E - C \cdot E - D \cdot E)}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot A - 3)^2 \cdot (A - 2)}}{(2 \cdot A - 3) \cdot \sqrt{N_u^2 \cdot (A - 2)^2}}$	1, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{(D - 2 \cdot A + 2)^2 \cdot (D - A + 1)}}{\sqrt{N_u^2 \cdot (D - A + 1)^2 \cdot (D - 2 \cdot A + 2)}}$
0, 2, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 2, 0, 0, 0:	$\frac{N_u \cdot (A - 2) \cdot \sqrt{(A - B + A \cdot B - 2)^2}}{\sqrt{N_u^2 \cdot (A - 2)^2 \cdot (A - B + A \cdot B - 2)}}$	1, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{(B - A + D - A \cdot B + 1)^2 \cdot (D - A + 1)}}{\sqrt{N_u^2 \cdot (D - A + 1)^2 \cdot (B - A + D - A \cdot B + 1)}}$
0, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{(2 \cdot C - 1)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (2 \cdot C - 1)}}$	0, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C + D - 2)^2 \cdot (C + D - 1)}}{\sqrt{N_u^2 \cdot (C + D - 1)^2 \cdot (2 \cdot C + D - 2)}}$
1, 0, 3, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C - 2 \cdot A + 1)^2 \cdot (C - A + 1)}}{\sqrt{N_u^2 \cdot (C - A + 1)^2 \cdot (2 \cdot C - 2 \cdot A + 1)}}$	1, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C - 2 \cdot A + D)^2 \cdot (C - A + D)}}{\sqrt{N_u^2 \cdot (C - A + D)^2 \cdot (2 \cdot C - 2 \cdot A + D)}}$
0, 2, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{(C - B + B \cdot C)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (C - B + B \cdot C)}}$	0, 2, 3, 4, 0:	$\frac{N_u \cdot \sqrt{(C - B + D + B \cdot C - 1)^2 \cdot (C + D - 1)}}{\sqrt{N_u^2 \cdot (C + D - 1)^2 \cdot (C - B + D + B \cdot C - 1)}}$
1, 2, 3, 0, 0:	$\frac{N_u \cdot \sqrt{(C - A - A \cdot B + B \cdot C + 1)^2 \cdot (C - A + 1)}}{\sqrt{N_u^2 \cdot (C - A + 1)^2 \cdot (C - A - A \cdot B + B \cdot C + 1)}}$	1, 2, 3, 4, 0:	$\frac{N_u \cdot \sqrt{(C - A + D - A \cdot B + B \cdot C)^2 \cdot (C - A + D)}}{\sqrt{N_u^2 \cdot (C - A + D)^2 \cdot (C - A + D - A \cdot B + B \cdot C)}}$

$$0, 0, 0, 0, 5: \frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$$

$$1, 0, 0, 0, 5: \frac{N_u \cdot (A - 2) \cdot \sqrt{(A - 2 \cdot E + A \cdot E - 1)^2}}{\sqrt{N_u^2 \cdot (A - 2)^2 \cdot (A - 2 \cdot E + A \cdot E - 1)}}$$

$$0, 2, 0, 0, 5: \frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$$

$$1, 2, 0, 0, 5: \frac{N_u \cdot (A - 2) \cdot \sqrt{(B + 2 \cdot E - A \cdot B - A \cdot E)^2}}{\sqrt{N_u^2 \cdot (A - 2)^2 \cdot (B + 2 \cdot E - A \cdot B - A \cdot E)}}$$

$$0, 0, 3, 0, 5: \frac{C \cdot N_u \cdot \sqrt{(C + C \cdot E - 1)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (C + C \cdot E - 1)}}$$

$$1, 0, 3, 0, 5: \frac{N_u \cdot \sqrt{(C - A + E - A \cdot E + C \cdot E)^2 \cdot (C - A + 1)}}{\sqrt{N_u^2 \cdot (C - A + 1)^2 \cdot (C - A + E - A \cdot E + C \cdot E)}}$$

$$0, 2, 3, 0, 5: \frac{C \cdot N_u \cdot \sqrt{(B \cdot C - B + C \cdot E)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (B \cdot C - B + C \cdot E)}}$$

$$1, 2, 3, 0, 5: \frac{N_u \cdot \sqrt{(E - A \cdot B + B \cdot C - A \cdot E + C \cdot E)^2 \cdot (C - A + 1)}}{\sqrt{N_u^2 \cdot (C - A + 1)^2 \cdot (E - A \cdot B + B \cdot C - A \cdot E + C \cdot E)}}$$

$$0, 0, 0, 4, 5: \frac{N_u \cdot \sqrt{D^2 \cdot E^2}}{E \cdot \sqrt{D^2 \cdot N_u^2}}$$

$$1, 0, 0, 4, 5: \frac{N_u \cdot \sqrt{(E - A - A \cdot E + D \cdot E + 1)^2 \cdot (D - A + 1)}}{\sqrt{N_u^2 \cdot (D - A + 1)^2 \cdot (E - A - A \cdot E + D \cdot E + 1)}}$$

$$0, 2, 0, 4, 5: \frac{N_u \cdot \sqrt{D^2 \cdot E^2}}{E \cdot \sqrt{D^2 \cdot N_u^2}}$$

$$1, 2, 0, 4, 5: \frac{N_u \cdot \sqrt{(B + E - A \cdot B - A \cdot E + D \cdot E)^2 \cdot (D - A + 1)}}{\sqrt{N_u^2 \cdot (D - A + 1)^2 \cdot (B + E - A \cdot B - A \cdot E + D \cdot E)}}$$

$$0, 0, 3, 4, 5: \frac{N_u \cdot \sqrt{(C - E + C \cdot E + D \cdot E - 1)^2 \cdot (C + D - 1)}}{\sqrt{N_u^2 \cdot (C + D - 1)^2 \cdot (C - E + C \cdot E + D \cdot E - 1)}}$$

$$1, 0, 3, 4, 5: \frac{N_u \cdot \sqrt{(C - A - A \cdot E + C \cdot E + D \cdot E)^2 \cdot (C - A + D)}}{\sqrt{N_u^2 \cdot (C - A + D)^2 \cdot (C - A - A \cdot E + C \cdot E + D \cdot E)}}$$

$$0, 2, 3, 4, 5: \frac{N_u \cdot \sqrt{(B \cdot C - E - B + C \cdot E + D \cdot E)^2 \cdot (C + D - 1)}}{\sqrt{N_u^2 \cdot (C + D - 1)^2 \cdot (B \cdot C - E - B + C \cdot E + D \cdot E)}}$$

$$1, 2, 3, 4, 5: \frac{N_u \cdot \sqrt{(B \cdot C - A \cdot B - A \cdot E + C \cdot E + D \cdot E)^2 \cdot (A - C - D)}}{\sqrt{N_u^2 \cdot (C - A + D)^2 \cdot (A \cdot B - B \cdot C + A \cdot E - C \cdot E - D \cdot E)}}$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(-A^2 + A + 1)^2}}{\sqrt{N_u^2 \cdot (-A^2 + A + 1)}}$	1, 0, 0, 4, 0:	$\frac{D \cdot N_u \cdot \sqrt{(A - A^2 + D)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (A - A^2 + D)}}$
0, 2, 0, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$	0, 2, 0, 4, 0:	$\frac{D \cdot N_u \cdot \sqrt{(B + D - 1)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (B + D - 1)}}$
1, 2, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(B \cdot A - A^2 + 1)^2}}{\sqrt{N_u^2 \cdot (B \cdot A - A^2 + 1)}}$	1, 2, 0, 4, 0:	$\frac{D \cdot N_u \cdot \sqrt{(B \cdot A - A^2 + D)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (B \cdot A - A^2 + D)}}$
0, 0, 3, 0, 0:	$\frac{N_u \cdot \sqrt{C^2}}{\sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{C^2 \cdot D^2}}{\sqrt{C^2 \cdot D^2 \cdot N_u^2}}$
1, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{(A - A^2 + C)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (A - A^2 + C)}}$	1, 0, 3, 4, 0:	$\frac{C \cdot D \cdot N_u \cdot \sqrt{(-A^2 + A + C \cdot D)^2}}{\sqrt{C^2 \cdot D^2 \cdot N_u^2 \cdot (-A^2 + A + C \cdot D)}}$
0, 2, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{(B + C - 1)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (B + C - 1)}}$	0, 2, 3, 4, 0:	$\frac{C \cdot D \cdot N_u \cdot \sqrt{(B + C \cdot D - 1)^2}}{\sqrt{C^2 \cdot D^2 \cdot N_u^2 \cdot (B + C \cdot D - 1)}}$
1, 2, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{(B \cdot A - A^2 + C)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (B \cdot A - A^2 + C)}}$	1, 2, 3, 4, 0:	$\frac{C \cdot D \cdot N_u \cdot \sqrt{(B \cdot A - A^2 + C \cdot D)^2}}{\sqrt{C^2 \cdot D^2 \cdot N_u^2 \cdot (B \cdot A - A^2 + C \cdot D)}}$



0, 0, 0, 0, 5:

$$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 5:

$$\frac{N_u \cdot \sqrt{E^2 \cdot (A - A^2 + 1)^2}}{E \cdot \sqrt{N_u^2 \cdot (A - A^2 + 1)}}$$

0, 2, 0, 0, 5:

$$\frac{N_u \cdot \sqrt{B^2 \cdot E^2}}{B \cdot E \cdot \sqrt{N_u^2}}$$

1, 2, 0, 0, 5:

$$\frac{N_u \cdot \sqrt{E^2 \cdot (B \cdot A - A^2 + 1)^2}}{E \cdot \sqrt{N_u^2 \cdot (B \cdot A - A^2 + 1)}}$$

0, 0, 3, 0, 5:

$$\frac{N_u \cdot \sqrt{C^2 \cdot E^2}}{E \cdot \sqrt{C^2 \cdot N_u^2}}$$

1, 0, 3, 0, 5:

$$\frac{C \cdot N_u \cdot \sqrt{E^2 \cdot (A - A^2 + C)^2}}{E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A - A^2 + C)}}$$

0, 2, 3, 0, 5:

$$\frac{C \cdot N_u \cdot \sqrt{E^2 \cdot (B + C - 1)^2}}{E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B + C - 1)}}$$

1, 2, 3, 0, 5:

$$\frac{C \cdot N_u \cdot \sqrt{E^2 \cdot (B \cdot A - A^2 + C)^2}}{E \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B \cdot A - A^2 + C)}}$$

0, 0, 0, 4, 5:

$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2}}{E \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 0, 4, 5:

$$\frac{D \cdot N_u \cdot \sqrt{E^2 \cdot (A - A^2 + D)^2}}{E \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A - A^2 + D)}}$$

0, 2, 0, 4, 5:

$$\frac{D \cdot N_u \cdot \sqrt{E^2 \cdot (B + D - 1)^2}}{E \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B + D - 1)}}$$

1, 2, 0, 4, 5:

$$\frac{D \cdot N_u \cdot \sqrt{E^2 \cdot (B \cdot A - A^2 + D)^2}}{E \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B \cdot A - A^2 + D)}}$$

0, 0, 3, 4, 5:

$$\frac{N_u \cdot \sqrt{C^2 \cdot D^2 \cdot E^2}}{E \cdot \sqrt{C^2 \cdot D^2 \cdot N_u^2}}$$

1, 0, 3, 4, 5:

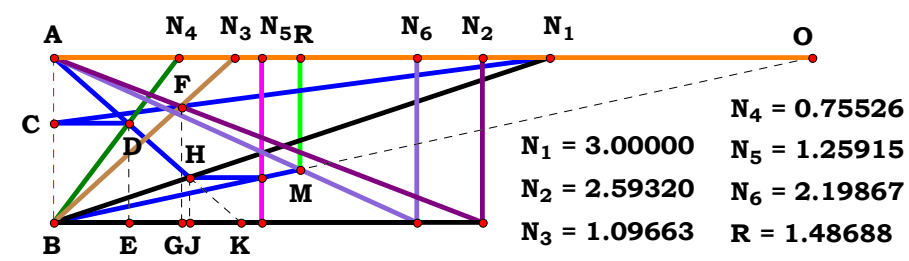
$$\frac{C \cdot D \cdot N_u \cdot \sqrt{E^2 \cdot (A - A^2 + C \cdot D)^2}}{E \cdot \sqrt{C^2 \cdot D^2 \cdot N_u^2 \cdot (A - A^2 + C \cdot D)}}$$

0, 2, 3, 4, 5:

$$\frac{C \cdot D \cdot N_u \cdot \sqrt{E^2 \cdot (B + C \cdot D - 1)^2}}{E \cdot \sqrt{C^2 \cdot D^2 \cdot N_u^2 \cdot (B + C \cdot D - 1)}}$$

1, 2, 3, 4, 5:

$$\frac{C \cdot D \cdot N_u \cdot \sqrt{E^2 \cdot (B \cdot A - A^2 + C \cdot D)^2}}{E \cdot \sqrt{C^2 \cdot D^2 \cdot N_u^2 \cdot (B \cdot A - A^2 + C \cdot D)}}$$



Descriptions.

$$\frac{N_u \cdot (C \cdot A - A^2 + B \cdot D)}{A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E + A \cdot C \cdot F + B \cdot D \cdot F} = 1.486876 \quad \text{Num} := \frac{N_u \cdot (C \cdot A - A^2 + B \cdot D)}{\sqrt{[N_u \cdot (C \cdot A - A^2 + B \cdot D)]^2}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad \text{L} = 1$$

$$\text{L} - \frac{N_u \cdot \sqrt{(A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E + A \cdot C \cdot F + B \cdot D \cdot F)^2} \cdot (A^2 - C \cdot A - B \cdot D)}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + B \cdot D)^2 \cdot (A^2 \cdot E + A^2 \cdot F - A \cdot C \cdot E - A \cdot C \cdot F - B \cdot D \cdot F)}} = 0$$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 2.5932$ $N_3 := 1.09663$
 $N_4 := .75526$ $N_5 := 1.25915$ $N_6 := 2.19867$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$$\text{Den} := \frac{A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E + A \cdot C \cdot F + B \cdot D \cdot F}{\sqrt{(A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E + A \cdot C \cdot F + B \cdot D \cdot F)^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot A - 2 \cdot A^2 + 1)^2 \cdot (-A^2 + A + 1)}}{\sqrt{N_u^2 \cdot (A - A^2 + 1)^2 \cdot (2 \cdot A - 2 \cdot A^2 + 1)}}$	1, 0, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot A - 2 \cdot A^2 + D)^2 \cdot (A - A^2 + D)}}{\sqrt{N_u^2 \cdot (A - A^2 + D)^2 \cdot (2 \cdot A - 2 \cdot A^2 + D)}}$
0, 2, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{\sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2}}$
1, 2, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot A - 2 \cdot A^2 + B)^2 \cdot (A - A^2 + B)}}{\sqrt{N_u^2 \cdot (A - A^2 + B)^2 \cdot (2 \cdot A - 2 \cdot A^2 + B)}}$	1, 2, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot A - 2 \cdot A^2 + B \cdot D)^2 \cdot (-A^2 + A + B \cdot D)}}{\sqrt{N_u^2 \cdot (A - A^2 + B \cdot D)^2 \cdot (2 \cdot A - 2 \cdot A^2 + B \cdot D)}}$
0, 0, 3, 0, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{(2 \cdot C - 1)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (2 \cdot C - 1)}}$	0, 0, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C + D - 2)^2 \cdot (C + D - 1)}}{\sqrt{N_u^2 \cdot (C + D - 1)^2 \cdot (2 \cdot C + D - 2)}}$
1, 0, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C \cdot A - 2 \cdot A^2 + 1)^2 \cdot (C \cdot A - A^2 + 1)}}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + 1)^2 \cdot (2 \cdot C \cdot A - 2 \cdot A^2 + 1)}}$	1, 0, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C \cdot A - 2 \cdot A^2 + D)^2 \cdot (C \cdot A - A^2 + D)}}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + D)^2 \cdot (2 \cdot C \cdot A - 2 \cdot A^2 + D)}}$
0, 2, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(B + 2 \cdot C - 2)^2 \cdot (B + C - 1)}}{\sqrt{N_u^2 \cdot (B + C - 1)^2 \cdot (B + 2 \cdot C - 2)}}$	0, 2, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C + B \cdot D - 2)^2 \cdot (C + B \cdot D - 1)}}{\sqrt{N_u^2 \cdot (C + B \cdot D - 1)^2 \cdot (2 \cdot C + B \cdot D - 2)}}$
1, 2, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C \cdot A - 2 \cdot A^2 + B)^2 \cdot (C \cdot A - A^2 + B)}}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + B)^2 \cdot (2 \cdot C \cdot A - 2 \cdot A^2 + B)}}$	1, 2, 3, 4, 0, 0:	$\frac{N_u \cdot \sqrt{(2 \cdot C \cdot A - 2 \cdot A^2 + B \cdot D)^2 \cdot (C \cdot A - A^2 + B \cdot D)}}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + B \cdot D)^2 \cdot (2 \cdot C \cdot A - 2 \cdot A^2 + B \cdot D)}}$



0, 0, 0, 0, 5, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(A - A^2 + A \cdot E - A^2 \cdot E + 1)^2} \cdot (-A^2 + A + 1)}{\sqrt{N_u^2 \cdot (A - A^2 + 1)^2} \cdot (A - A^2 + A \cdot E - A^2 \cdot E + 1)}$
0, 2, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{B^2}}{\sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(A + B - A^2 + A \cdot E - A^2 \cdot E)^2} \cdot (A - A^2 + B)}{\sqrt{N_u^2 \cdot (A - A^2 + B)^2} \cdot (A + B - A^2 + A \cdot E - A^2 \cdot E)}$
0, 0, 3, 0, 5, 0:	$\frac{C \cdot N_u \cdot \sqrt{(C - E + C \cdot E)^2}}{\sqrt{C^2 \cdot N_u^2} \cdot (C - E + C \cdot E)}$
1, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(A \cdot C - A^2 - A^2 \cdot E + A \cdot C \cdot E + 1)^2} \cdot (C \cdot A - A^2 + 1)}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + 1)^2} \cdot (A \cdot C - A^2 - A^2 \cdot E + A \cdot C \cdot E + 1)}$
0, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(B + C - E + C \cdot E - 1)^2} \cdot (B + C - 1)}{\sqrt{N_u^2 \cdot (B + C - 1)^2} \cdot (B + C - E + C \cdot E - 1)}$
1, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(B - A^2 + A \cdot C - A^2 \cdot E + A \cdot C \cdot E)^2} \cdot (C \cdot A - A^2 + B)}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + B)^2} \cdot (B - A^2 + A \cdot C - A^2 \cdot E + A \cdot C \cdot E)}$

0, 0, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{(A + D - A^2 + A \cdot E - A^2 \cdot E)^2} \cdot (A - A^2 + D)}{\sqrt{N_u^2 \cdot (A - A^2 + D)^2} \cdot (A + D - A^2 + A \cdot E - A^2 \cdot E)}$
0, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2}}$
1, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{(A - A^2 + A \cdot E + B \cdot D - A^2 \cdot E)^2} \cdot (-A^2 + A + B \cdot D)}{\sqrt{N_u^2 \cdot (A - A^2 + B \cdot D)^2} \cdot (A - A^2 + A \cdot E + B \cdot D - A^2 \cdot E)}$
0, 0, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{(C + D - E + C \cdot E - 1)^2} \cdot (C + D - 1)}{\sqrt{N_u^2 \cdot (C + D - 1)^2} \cdot (C + D - E + C \cdot E - 1)}$
1, 0, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{(D - A^2 + A \cdot C - A^2 \cdot E + A \cdot C \cdot E)^2} \cdot (C \cdot A - A^2 + D)}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + D)^2} \cdot (D - A^2 + A \cdot C - A^2 \cdot E + A \cdot C \cdot E)}$
0, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{(C - E + B \cdot D + C \cdot E - 1)^2} \cdot (C + B \cdot D - 1)}{\sqrt{N_u^2 \cdot (C + B \cdot D - 1)^2} \cdot (C - E + B \cdot D + C \cdot E - 1)}$
1, 2, 3, 4, 5, 0:	$\frac{N_u \cdot \sqrt{(A \cdot C - A^2 + B \cdot D - A^2 \cdot E + A \cdot C \cdot E)^2} \cdot (C \cdot A - A^2 + B \cdot D)}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + B \cdot D)^2} \cdot (A \cdot C - A^2 + B \cdot D - A^2 \cdot E + A \cdot C \cdot E)}$



0, 0, 0, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(A + F - A^2 + A \cdot F - A^2 \cdot F\right)^2 \cdot \left(-A^2 + A + 1\right)}}{\sqrt{N_u^2 \cdot \left(A - A^2 + 1\right)^2 \cdot \left(A + F - A^2 + A \cdot F - A^2 \cdot F\right)}}$$

0, 2, 0, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2}}{F \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 0, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(A - A^2 + A \cdot F + B \cdot F - A^2 \cdot F\right)^2 \cdot \left(A - A^2 + B\right)}}{\sqrt{N_u^2 \cdot \left(A - A^2 + B\right)^2 \cdot \left(A - A^2 + A \cdot F + B \cdot F - A^2 \cdot F\right)}}$$

0, 0, 3, 0, 0, 6:

$$\frac{C \cdot N_u \cdot \sqrt{\left(C + C \cdot F - 1\right)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot \left(C + C \cdot F - 1\right)}}$$

1, 0, 3, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(F - A^2 + A \cdot C - A^2 \cdot F + A \cdot C \cdot F\right)^2 \cdot \left(C \cdot A - A^2 + 1\right)}}{\sqrt{N_u^2 \cdot \left(C \cdot A - A^2 + 1\right)^2 \cdot \left(F - A^2 + A \cdot C - A^2 \cdot F + A \cdot C \cdot F\right)}}$$

0, 2, 3, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(C - F + B \cdot F + C \cdot F - 1\right)^2 \cdot \left(B + C - 1\right)}}{\sqrt{N_u^2 \cdot \left(B + C - 1\right)^2 \cdot \left(C - F + B \cdot F + C \cdot F - 1\right)}}$$

1, 2, 3, 0, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(A \cdot C - A^2 + B \cdot F - A^2 \cdot F + A \cdot C \cdot F\right)^2 \cdot \left(C \cdot A - A^2 + B\right)}}{\sqrt{N_u^2 \cdot \left(C \cdot A - A^2 + B\right)^2 \cdot \left(A \cdot C - A^2 + B \cdot F - A^2 \cdot F + A \cdot C \cdot F\right)}}$$

0, 0, 0, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{D^2 \cdot F^2}}{F \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 0, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(A - A^2 + A \cdot F + D \cdot F - A^2 \cdot F\right)^2 \cdot \left(A - A^2 + D\right)}}{\sqrt{N_u^2 \cdot \left(A - A^2 + D\right)^2 \cdot \left(A - A^2 + A \cdot F + D \cdot F - A^2 \cdot F\right)}}$$

0, 2, 0, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2}}{F \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

1, 2, 0, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(A - A^2 + A \cdot F - A^2 \cdot F + B \cdot D \cdot F\right)^2 \cdot \left(-A^2 + A + B \cdot D\right)}}{\sqrt{N_u^2 \cdot \left(A - A^2 + B \cdot D\right)^2 \cdot \left(A - A^2 + A \cdot F - A^2 \cdot F + B \cdot D \cdot F\right)}}$$

0, 0, 3, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(C - F + C \cdot F + D \cdot F - 1\right)^2 \cdot \left(C + D - 1\right)}}{\sqrt{N_u^2 \cdot \left(C + D - 1\right)^2 \cdot \left(C - F + C \cdot F + D \cdot F - 1\right)}}$$

1, 0, 3, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(A \cdot C - A^2 + D \cdot F - A^2 \cdot F + A \cdot C \cdot F\right)^2 \cdot \left(C \cdot A - A^2 + D\right)}}{\sqrt{N_u^2 \cdot \left(C \cdot A - A^2 + D\right)^2 \cdot \left(A \cdot C - A^2 + D \cdot F - A^2 \cdot F + A \cdot C \cdot F\right)}}$$

0, 2, 3, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(C - F + C \cdot F + B \cdot D \cdot F - 1\right)^2 \cdot \left(C + B \cdot D - 1\right)}}{\sqrt{N_u^2 \cdot \left(C + B \cdot D - 1\right)^2 \cdot \left(C - F + C \cdot F + B \cdot D \cdot F - 1\right)}}$$

1, 2, 3, 4, 0, 6:

$$\frac{N_u \cdot \sqrt{\left(A \cdot C - A^2 - A^2 \cdot F + A \cdot C \cdot F + B \cdot D \cdot F\right)^2 \cdot \left(C \cdot A - A^2 + B \cdot D\right)}}{\sqrt{N_u^2 \cdot \left(C \cdot A - A^2 + B \cdot D\right)^2 \cdot \left(A \cdot C - A^2 - A^2 \cdot F + A \cdot C \cdot F + B \cdot D \cdot F\right)}}$$



0, 0, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(F + A \cdot E + A \cdot F - A^2 \cdot E - A^2 \cdot F\right)^2 \cdot \left(-A^2 + A + 1\right)}}{\sqrt{N_u^2 \cdot \left(A - A^2 + 1\right)^2 \cdot \left(F + A \cdot E + A \cdot F - A^2 \cdot E - A^2 \cdot F\right)}}$$

0, 2, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2}}{F \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(A \cdot E + A \cdot F + B \cdot F - A^2 \cdot E - A^2 \cdot F\right)^2 \cdot \left(A - A^2 + B\right)}}{\sqrt{N_u^2 \cdot \left(A - A^2 + B\right)^2 \cdot \left(A \cdot E + A \cdot F + B \cdot F - A^2 \cdot E - A^2 \cdot F\right)}}$$

0, 0, 3, 0, 5, 6:

$$\frac{C \cdot N_u \cdot \sqrt{\left(C \cdot E - E + C \cdot F\right)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot \left(C \cdot E - E + C \cdot F\right)}}$$

1, 0, 3, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(F - A^2 \cdot E - A^2 \cdot F + A \cdot C \cdot E + A \cdot C \cdot F\right)^2 \cdot \left(C \cdot A - A^2 + 1\right)}}{\sqrt{N_u^2 \cdot \left(C \cdot A - A^2 + 1\right)^2 \cdot \left(F - A^2 \cdot E - A^2 \cdot F + A \cdot C \cdot E + A \cdot C \cdot F\right)}}$$

0, 2, 3, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(B \cdot F - F - E + C \cdot E + C \cdot F\right)^2 \cdot \left(B + C - 1\right)}}{\sqrt{N_u^2 \cdot \left(B + C - 1\right)^2 \cdot \left(B \cdot F - F - E + C \cdot E + C \cdot F\right)}}$$

1, 2, 3, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(B \cdot F - A^2 \cdot E - A^2 \cdot F + A \cdot C \cdot E + A \cdot C \cdot F\right)^2 \cdot \left(C \cdot A - A^2 + B\right)}}{\sqrt{N_u^2 \cdot \left(C \cdot A - A^2 + B\right)^2 \cdot \left(B \cdot F - A^2 \cdot E - A^2 \cdot F + A \cdot C \cdot E + A \cdot C \cdot F\right)}}$$

0, 0, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{D^2 \cdot F^2}}{F \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(A \cdot E + A \cdot F + D \cdot F - A^2 \cdot E - A^2 \cdot F\right)^2 \cdot \left(A - A^2 + D\right)}}{\sqrt{N_u^2 \cdot \left(A - A^2 + D\right)^2 \cdot \left(A \cdot E + A \cdot F + D \cdot F - A^2 \cdot E - A^2 \cdot F\right)}}$$

0, 2, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2}}{F \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

1, 2, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(A \cdot E + A \cdot F - A^2 \cdot E - A^2 \cdot F + B \cdot D \cdot F\right)^2 \cdot \left(-A^2 + A + B \cdot D\right)}}{\sqrt{N_u^2 \cdot \left(A - A^2 + B \cdot D\right)^2 \cdot \left(A \cdot E + A \cdot F - A^2 \cdot E - A^2 \cdot F + B \cdot D \cdot F\right)}}$$

0, 0, 3, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(C \cdot E - F - E + C \cdot F + D \cdot F\right)^2 \cdot \left(C + D - 1\right)}}{\sqrt{N_u^2 \cdot \left(C + D - 1\right)^2 \cdot \left(C \cdot E - F - E + C \cdot F + D \cdot F\right)}}$$

1, 0, 3, 4, 5, 6:

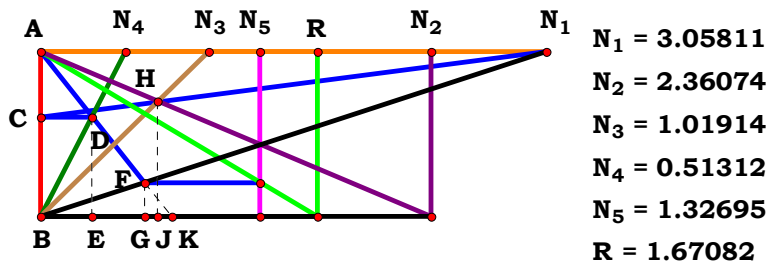
$$\frac{N_u \cdot \sqrt{\left(D \cdot F - A^2 \cdot E - A^2 \cdot F + A \cdot C \cdot E + A \cdot C \cdot F\right)^2 \cdot \left(C \cdot A - A^2 + D\right)}}{\sqrt{N_u^2 \cdot \left(C \cdot A - A^2 + D\right)^2 \cdot \left(D \cdot F - A^2 \cdot E - A^2 \cdot F + A \cdot C \cdot E + A \cdot C \cdot F\right)}}$$

0, 2, 3, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(C \cdot E - F - E + C \cdot F + B \cdot D \cdot F\right)^2 \cdot \left(C + B \cdot D - 1\right)}}{\sqrt{N_u^2 \cdot \left(C + B \cdot D - 1\right)^2 \cdot \left(C \cdot E - F - E + C \cdot F + B \cdot D \cdot F\right)}}$$

1, 2, 3, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{\left(A \cdot C \cdot E - A^2 \cdot F - A^2 \cdot E + A \cdot C \cdot F + B \cdot D \cdot F\right)^2 \cdot \left(A^2 - C \cdot A - B \cdot D\right)}}{\sqrt{N_u^2 \cdot \left(C \cdot A - A^2 + B \cdot D\right)^2 \cdot \left(A^2 \cdot E + A^2 \cdot F - A \cdot C \cdot E - A \cdot C \cdot F - B \cdot D \cdot F\right)}}$$



Unit. $AB := 1$ Given. $N_1 := 3.05811$ $N_2 := 2.36074$ $N_3 := 1.01914$

$N_4 := .51312$ $N_5 := 1.32695$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (C \cdot A - A^2 + B \cdot D)}{B \cdot D \cdot E} = 1.670819$$

$$Num := \frac{N_u \cdot (C \cdot A - A^2 + B \cdot D)}{\sqrt{\left[N_u \cdot (C \cdot A - A^2 + B \cdot D)\right]^2}}$$

$$Den := \frac{B \cdot D \cdot E}{\sqrt{(B \cdot D \cdot E)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot E^2} \cdot (C \cdot A - A^2 + B \cdot D)}{B \cdot D \cdot E \cdot \sqrt{N_u^2 \cdot (C \cdot A - A^2 + B \cdot D)^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot (A - A^2 + 1)}{\sqrt{N_u^2 \cdot (A - A^2 + 1)^2}}$	1, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (A - A^2 + D)}{D \cdot \sqrt{N_u^2 \cdot (A - A^2 + D)^2}}$
0, 2, 0, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{\sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2}}$
1, 2, 0, 0, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (A - A^2 + B)}{B \cdot \sqrt{N_u^2 \cdot (A - A^2 + B)^2}}$	1, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (A - A^2 + B \cdot D)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (A - A^2 + B \cdot D)^2}}$
0, 0, 3, 0, 0:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (C + D - 1)}{D \cdot \sqrt{N_u^2 \cdot (C + D - 1)^2}}$
1, 0, 3, 0, 0:	$\frac{N_u \cdot (C \cdot A - A^2 + 1)}{\sqrt{N_u^2 \cdot (C \cdot A - A^2 + 1)^2}}$	1, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{D^2} \cdot (C \cdot A - A^2 + D)}{D \cdot \sqrt{N_u^2 \cdot (C \cdot A - A^2 + D)^2}}$
0, 2, 3, 0, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (B + C - 1)}{B \cdot \sqrt{N_u^2 \cdot (B + C - 1)^2}}$	0, 2, 3, 4, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (C + B \cdot D - 1)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (C + B \cdot D - 1)^2}}$
1, 2, 3, 0, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (C \cdot A - A^2 + B)}{B \cdot \sqrt{N_u^2 \cdot (C \cdot A - A^2 + B)^2}}$	1, 2, 3, 4, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (C \cdot A - A^2 + B \cdot D)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (C \cdot A - A^2 + B \cdot D)^2}}$



0, 0, 0, 0, 5:
$$\frac{N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 5:
$$\frac{N_u \cdot \sqrt{E^2} \cdot (A - A^2 + 1)}{E \cdot \sqrt{N_u^2} \cdot (A - A^2 + 1)^2}$$

0, 2, 0, 0, 5:
$$\frac{N_u \cdot \sqrt{B^2 \cdot E^2}}{E \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 0, 0, 5:
$$\frac{N_u \cdot \sqrt{B^2 \cdot E^2} \cdot (A - A^2 + B)}{B \cdot E \cdot \sqrt{N_u^2} \cdot (A - A^2 + B)^2}$$

0, 0, 3, 0, 5:
$$\frac{C \cdot N_u \cdot \sqrt{E^2}}{E \cdot \sqrt{C^2 \cdot N_u^2}}$$

1, 0, 3, 0, 5:
$$\frac{N_u \cdot \sqrt{E^2} \cdot (C \cdot A - A^2 + 1)}{E \cdot \sqrt{N_u^2} \cdot (C \cdot A - A^2 + 1)^2}$$

0, 2, 3, 0, 5:
$$\frac{N_u \cdot \sqrt{B^2 \cdot E^2} \cdot (B + C - 1)}{B \cdot E \cdot \sqrt{N_u^2} \cdot (B + C - 1)^2}$$

1, 2, 3, 0, 5:
$$\frac{N_u \cdot \sqrt{B^2 \cdot E^2} \cdot (C \cdot A - A^2 + B)}{B \cdot E \cdot \sqrt{N_u^2} \cdot (C \cdot A - A^2 + B)^2}$$

0, 0, 0, 4, 5:
$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2}}{E \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 0, 4, 5:
$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (A - A^2 + D)}{D \cdot E \cdot \sqrt{N_u^2} \cdot (A - A^2 + D)^2}$$

0, 2, 0, 4, 5:
$$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot E^2}}{E \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

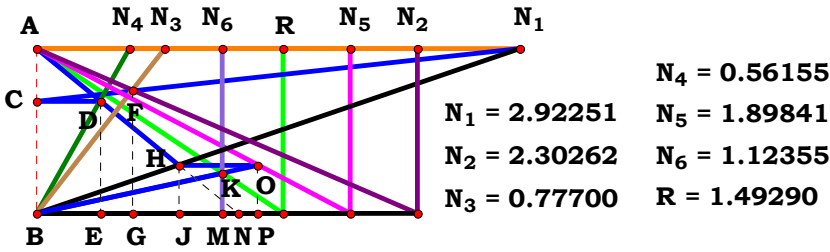
1, 2, 0, 4, 5:
$$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot E^2} \cdot (A - A^2 + B \cdot D)}{B \cdot D \cdot E \cdot \sqrt{N_u^2} \cdot (A - A^2 + B \cdot D)^2}$$

0, 0, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (C + D - 1)}{D \cdot E \cdot \sqrt{N_u^2} \cdot (C + D - 1)^2}$$

1, 0, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{D^2 \cdot E^2} \cdot (C \cdot A - A^2 + D)}{D \cdot E \cdot \sqrt{N_u^2} \cdot (C \cdot A - A^2 + D)^2}$$

0, 2, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot E^2} \cdot (C + B \cdot D - 1)}{B \cdot D \cdot E \cdot \sqrt{N_u^2} \cdot (C + B \cdot D - 1)^2}$$

1, 2, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot E^2} \cdot (C \cdot A - A^2 + B \cdot D)}{B \cdot D \cdot E \cdot \sqrt{N_u^2} \cdot (C \cdot A - A^2 + B \cdot D)^2}$$



Descriptions.

$$\frac{B \cdot D \cdot N_u}{E \cdot A^2 - C \cdot E \cdot A + B \cdot D \cdot F} = 1.492904$$

$$Num := \frac{B \cdot D \cdot N_u}{\sqrt{(B \cdot D \cdot N_u)^2}}$$

$$Den := \frac{E \cdot A^2 - C \cdot E \cdot A + B \cdot D \cdot F}{\sqrt{(E \cdot A^2 - C \cdot E \cdot A + B \cdot D \cdot F)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{B \cdot D \cdot N_u \cdot \sqrt{(E \cdot A^2 - C \cdot E \cdot A + B \cdot D \cdot F)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (E \cdot A^2 - C \cdot E \cdot A + B \cdot D \cdot F)}} = 0$$

Unit. $AB := 1$ Given. $N_1 := 2.92251$ $N_2 := 2.30262$ $N_3 := .77700$

$N_4 := .56155$ $N_5 := 1.89841$ $N_6 := 1.12355$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(A^2 - A + 1)^2}}{\sqrt{N_u^2 \cdot (A^2 - A + 1)}}$	1, 0, 0, 4, 0, 0:	$\frac{D \cdot N_u \cdot \sqrt{(A^2 - A + D)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (A^2 - A + D)}}$
0, 2, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{\sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4, 0, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2}}$
1, 2, 0, 0, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{(A^2 - A + B)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (A^2 - A + B)}}$	1, 2, 0, 4, 0, 0:	$\frac{B \cdot D \cdot N_u \cdot \sqrt{(A^2 - A + B \cdot D)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (A^2 - A + B \cdot D)}}$
0, 0, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(C - 2)^2}}{(C - 2) \cdot \sqrt{N_u^2}}$	0, 0, 3, 4, 0, 0:	$\frac{D \cdot N_u \cdot \sqrt{(D - C + 1)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (D - C + 1)}}$
1, 0, 3, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(A^2 - C \cdot A + 1)^2}}{\sqrt{N_u^2 \cdot (A^2 - C \cdot A + 1)}}$	1, 0, 3, 4, 0, 0:	$\frac{D \cdot N_u \cdot \sqrt{(A^2 - C \cdot A + D)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (A^2 - C \cdot A + D)}}$
0, 2, 3, 0, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{(B - C + 1)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (B - C + 1)}}$	0, 2, 3, 4, 0, 0:	$\frac{B \cdot D \cdot N_u \cdot \sqrt{(B \cdot D - C + 1)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (B \cdot D - C + 1)}}$
1, 2, 3, 0, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{(A^2 - C \cdot A + B)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (A^2 - C \cdot A + B)}}$	1, 2, 3, 4, 0, 0:	$\frac{B \cdot D \cdot N_u \cdot \sqrt{(A^2 - C \cdot A + B \cdot D)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (A^2 - C \cdot A + B \cdot D)}}$



0, 0, 0, 0, 5, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(E \cdot A^2 - E \cdot A + 1)^2}}{\sqrt{N_u^2 \cdot (E \cdot A^2 - E \cdot A + 1)}}$
0, 2, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{B^2}}{\sqrt{B^2 \cdot N_u^2}}$
1, 2, 0, 0, 5, 0:	$\frac{B \cdot N_u \cdot \sqrt{(E \cdot A^2 - E \cdot A + B)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (E \cdot A^2 - E \cdot A + B)}}$
0, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(E - C \cdot E + 1)^2}}{\sqrt{N_u^2 \cdot (E - C \cdot E + 1)}}$
1, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(E \cdot A^2 - C \cdot E \cdot A + 1)^2}}{\sqrt{N_u^2 \cdot (E \cdot A^2 - C \cdot E \cdot A + 1)}}$
0, 2, 3, 0, 5, 0:	$\frac{B \cdot N_u \cdot \sqrt{(B + E - C \cdot E)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (B + E - C \cdot E)}}$
1, 2, 3, 0, 5, 0:	$\frac{B \cdot N_u \cdot \sqrt{(E \cdot A^2 - C \cdot E \cdot A + B)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (E \cdot A^2 - C \cdot E \cdot A + B)}}$

0, 0, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 4, 5, 0:	$\frac{D \cdot N_u \cdot \sqrt{(E \cdot A^2 - E \cdot A + D)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (E \cdot A^2 - E \cdot A + D)}}$
0, 2, 0, 4, 5, 0:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2}}$
1, 2, 0, 4, 5, 0:	$\frac{B \cdot D \cdot N_u \cdot \sqrt{(E \cdot A^2 - E \cdot A + B \cdot D)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (E \cdot A^2 - E \cdot A + B \cdot D)}}$
0, 0, 3, 4, 5, 0:	$\frac{D \cdot N_u \cdot \sqrt{(D + E - C \cdot E)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (D + E - C \cdot E)}}$
1, 0, 3, 4, 5, 0:	$\frac{D \cdot N_u \cdot \sqrt{(E \cdot A^2 - C \cdot E \cdot A + D)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (E \cdot A^2 - C \cdot E \cdot A + D)}}$
0, 2, 3, 4, 5, 0:	$\frac{B \cdot D \cdot N_u \cdot \sqrt{(E + B \cdot D - C \cdot E)^2}}{(E + B \cdot D - C \cdot E) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$
1, 2, 3, 4, 5, 0:	$\frac{B \cdot D \cdot N_u \cdot \sqrt{(E \cdot A^2 - C \cdot E \cdot A + B \cdot D)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (E \cdot A^2 - C \cdot E \cdot A + B \cdot D)}}$



$$0, 0, 0, 0, 0, 6: \frac{N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2}}$$

$$1, 0, 0, 0, 0, 6: \frac{N_u \cdot \sqrt{(A^2 - A + F)^2}}{\sqrt{N_u^2 \cdot (A^2 - A + F)}}$$

$$0, 2, 0, 0, 0, 6: \frac{N_u \cdot \sqrt{B^2 \cdot F^2}}{F \cdot \sqrt{B^2 \cdot N_u^2}}$$

$$1, 2, 0, 0, 0, 6: \frac{B \cdot N_u \cdot \sqrt{(A^2 - A + B \cdot F)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (A^2 - A + B \cdot F)}}$$

$$0, 0, 3, 0, 0, 6: \frac{N_u \cdot \sqrt{(F - C + 1)^2}}{\sqrt{N_u^2 \cdot (F - C + 1)}}$$

$$1, 0, 3, 0, 0, 6: \frac{N_u \cdot \sqrt{(A^2 - C \cdot A + F)^2}}{\sqrt{N_u^2 \cdot (A^2 - C \cdot A + F)}}$$

$$0, 2, 3, 0, 0, 6: \frac{B \cdot N_u \cdot \sqrt{(B \cdot F - C + 1)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (B \cdot F - C + 1)}}$$

$$1, 2, 3, 0, 0, 6: \frac{B \cdot N_u \cdot \sqrt{(A^2 - C \cdot A + B \cdot F)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (A^2 - C \cdot A + B \cdot F)}}$$

$$0, 0, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{D^2 \cdot F^2}}{F \cdot \sqrt{D^2 \cdot N_u^2}}$$

$$1, 0, 0, 4, 0, 6: \frac{D \cdot N_u \cdot \sqrt{(A^2 - A + D \cdot F)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (A^2 - A + D \cdot F)}}$$

$$0, 2, 0, 4, 0, 6: \frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2}}{F \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

$$1, 2, 0, 4, 0, 6: \frac{B \cdot D \cdot N_u \cdot \sqrt{(A^2 - A + B \cdot D \cdot F)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (A^2 - A + B \cdot D \cdot F)}}$$

$$0, 0, 3, 4, 0, 6: \frac{D \cdot N_u \cdot \sqrt{(D \cdot F - C + 1)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (D \cdot F - C + 1)}}$$

$$1, 0, 3, 4, 0, 6: \frac{D \cdot N_u \cdot \sqrt{(A^2 - C \cdot A + D \cdot F)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (A^2 - C \cdot A + D \cdot F)}}$$

$$0, 2, 3, 4, 0, 6: \frac{B \cdot D \cdot N_u \cdot \sqrt{(B \cdot D \cdot F - C + 1)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (B \cdot D \cdot F - C + 1)}}$$

$$1, 2, 3, 4, 0, 6: \frac{B \cdot D \cdot N_u \cdot \sqrt{(A^2 - C \cdot A + B \cdot D \cdot F)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (A^2 - C \cdot A + B \cdot D \cdot F)}}$$



0, 0, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{(E \cdot A^2 - E \cdot A + F)^2}}{\sqrt{N_u^2 \cdot (E \cdot A^2 - E \cdot A + F)}}$$

0, 2, 0, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot F^2}}{F \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 0, 0, 5, 6:

$$\frac{B \cdot N_u \cdot \sqrt{(E \cdot A^2 - E \cdot A + B \cdot F)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (E \cdot A^2 - E \cdot A + B \cdot F)}}$$

0, 0, 3, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{(E + F - C \cdot E)^2}}{\sqrt{N_u^2 \cdot (E + F - C \cdot E)}}$$

1, 0, 3, 0, 5, 6:

$$\frac{N_u \cdot \sqrt{(E \cdot A^2 - C \cdot E \cdot A + F)^2}}{\sqrt{N_u^2 \cdot (E \cdot A^2 - C \cdot E \cdot A + F)}}$$

0, 2, 3, 0, 5, 6:

$$\frac{B \cdot N_u \cdot \sqrt{(E + B \cdot F - C \cdot E)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (E + B \cdot F - C \cdot E)}}$$

1, 2, 3, 0, 5, 6:

$$\frac{B \cdot N_u \cdot \sqrt{(E \cdot A^2 - C \cdot E \cdot A + B \cdot F)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (E \cdot A^2 - C \cdot E \cdot A + B \cdot F)}}$$

0, 0, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{D^2 \cdot F^2}}{F \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 0, 4, 5, 6:

$$\frac{D \cdot N_u \cdot \sqrt{(E \cdot A^2 - E \cdot A + D \cdot F)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (E \cdot A^2 - E \cdot A + D \cdot F)}}$$

0, 2, 0, 4, 5, 6:

$$\frac{N_u \cdot \sqrt{B^2 \cdot D^2 \cdot F^2}}{F \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

1, 2, 0, 4, 5, 6:

$$\frac{B \cdot D \cdot N_u \cdot \sqrt{(E \cdot A^2 - E \cdot A + B \cdot D \cdot F)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (E \cdot A^2 - E \cdot A + B \cdot D \cdot F)}}$$

0, 0, 3, 4, 5, 6:

$$\frac{D \cdot N_u \cdot \sqrt{(E - C \cdot E + D \cdot F)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (E - C \cdot E + D \cdot F)}}$$

1, 0, 3, 4, 5, 6:

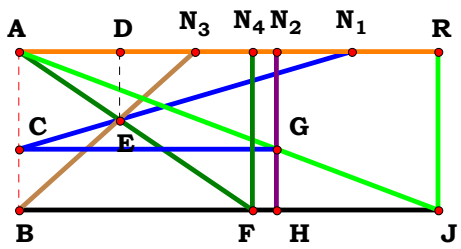
$$\frac{D \cdot N_u \cdot \sqrt{(E \cdot A^2 - C \cdot E \cdot A + D \cdot F)^2}}{\sqrt{D^2 \cdot N_u^2 \cdot (E \cdot A^2 - C \cdot E \cdot A + D \cdot F)}}$$

0, 2, 3, 4, 5, 6:

$$\frac{B \cdot D \cdot N_u \cdot \sqrt{(E - C \cdot E + B \cdot D \cdot F)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (E - C \cdot E + B \cdot D \cdot F)}}$$

1, 2, 3, 4, 5, 6:

$$\frac{B \cdot D \cdot N_u \cdot \sqrt{(E \cdot A^2 - C \cdot E \cdot A + B \cdot D \cdot F)^2}}{\sqrt{B^2 \cdot D^2 \cdot N_u^2 \cdot (E \cdot A^2 - C \cdot E \cdot A + B \cdot D \cdot F)}}$$



N₁ = 2.10101
N₂ = 1.62626
N₃ = 1.11111
N₄ = 1.47475
R = 2.64325

Unit. AB := 1 Given. N₁ := 2.10101 N₂ := 1.62626 N₃ := 1.11111 N₄ := 1.47475

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$\frac{N_u \cdot (C - A + D)}{B \cdot D} = 2.643245$

Num := $\frac{N_u \cdot (C - A + D)}{\sqrt{[N_u \cdot (C - A + D)]^2}}$

Den := $\frac{B \cdot D}{\sqrt{(B \cdot D)^2}}$ L := $\frac{Num}{Den}$

Definitions.

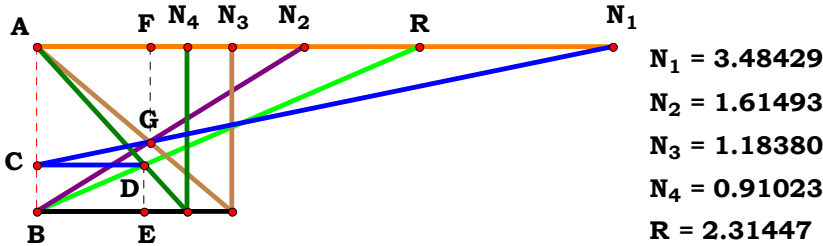
Num = 1 Den = 1 L = 1

$L - \frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (C - A + D)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (C - A + D)^2}} = 0$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2}}{\sqrt{D^2 \cdot N_u^2}}$
1, 0, 0, 0:	$-\frac{N_u \cdot (A - 2)}{\sqrt{N_u^2 \cdot (A - 2)^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2} \cdot (D - A + 1)}{D \cdot \sqrt{N_u^2 \cdot (D - A + 1)^2}}$
0, 2, 0, 0:	$\frac{N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2}}$	0, 2, 0, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2}}{B \cdot \sqrt{D^2 \cdot N_u^2}}$
1, 2, 0, 0:	$-\frac{N_u \cdot (A - 2) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^2 \cdot (A - 2)^2}}$	1, 2, 0, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (D - A + 1)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (D - A + 1)^2}}$
0, 0, 3, 0:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot \sqrt{D^2} \cdot (C + D - 1)}{D \cdot \sqrt{N_u^2 \cdot (C + D - 1)^2}}$
1, 0, 3, 0:	$\frac{N_u \cdot (C - A + 1)}{\sqrt{N_u^2 \cdot (C - A + 1)^2}}$	1, 0, 3, 4:	$\frac{N_u \cdot \sqrt{D^2} \cdot (C - A + D)}{D \cdot \sqrt{N_u^2 \cdot (C - A + D)^2}}$
0, 2, 3, 0:	$\frac{C \cdot N_u \cdot \sqrt{B^2}}{B \cdot \sqrt{C^2 \cdot N_u^2}}$	0, 2, 3, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (C + D - 1)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (C + D - 1)^2}}$
1, 2, 3, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (C - A + 1)}{B \cdot \sqrt{N_u^2 \cdot (C - A + 1)^2}}$	1, 2, 3, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (C - A + D)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (C - A + D)^2}}$



Unit. AB := 1 Given. N₁ := 3.48429 N₂ := 1.61493 N₃ := 1.18380 N₄ := .91023

$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$

$$\frac{C \cdot N_u}{D \cdot (B - A)} = 2.31445 \quad \text{Num} := \frac{C \cdot N_u}{\sqrt{(C \cdot N_u)^2}} \quad \text{Den} := \frac{D \cdot (B - A)}{\sqrt{[D \cdot (B - A)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (A - B)^2}}{D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B - A)}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

0, 0, 0, 4: 0

1, 0, 0, 0:
$$-\frac{N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{N_u^2}}$$

1, 0, 0, 4:
$$-\frac{N_u \cdot \sqrt{D^2 \cdot (A-1)^2}}{D \cdot (A-1) \cdot \sqrt{N_u^2}}$$

0, 2, 0, 0:
$$\frac{N_u \cdot \sqrt{(B-1)^2}}{(B-1) \cdot \sqrt{N_u^2}}$$

0, 2, 0, 4:
$$\frac{N_u \cdot \sqrt{D^2 \cdot (B-1)^2}}{D \cdot (B-1) \cdot \sqrt{N_u^2}}$$

1, 2, 0, 0:
$$-\frac{N_u \cdot \sqrt{(A-B)^2}}{\sqrt{N_u^2} \cdot (A-B)}$$

1, 2, 0, 4:
$$-\frac{N_u \cdot \sqrt{D^2 \cdot (A-B)^2}}{D \cdot \sqrt{N_u^2} \cdot (A-B)}$$

0, 0, 3, 0: 0

0, 0, 3, 4: 0

1, 0, 3, 0:
$$-\frac{C \cdot N_u \cdot \sqrt{(A-1)^2}}{(A-1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

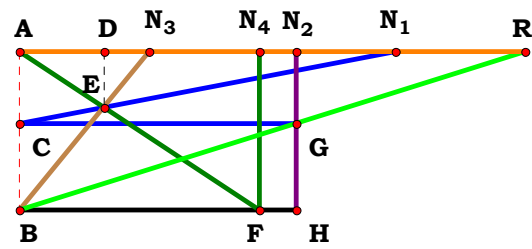
1, 0, 3, 4:
$$-\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (A-1)^2}}{D \cdot (A-1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

0, 2, 3, 0:
$$\frac{C \cdot N_u \cdot \sqrt{(B-1)^2}}{(B-1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

0, 2, 3, 4:
$$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (B-1)^2}}{D \cdot (B-1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

1, 2, 3, 0:
$$-\frac{C \cdot N_u \cdot \sqrt{(A-B)^2}}{\sqrt{C^2 \cdot N_u^2} \cdot (A-B)}$$

1, 2, 3, 4:
$$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (A-B)^2}}{D \cdot \sqrt{C^2 \cdot N_u^2} \cdot (B-A)}$$



$N_1 = 2.37374$
 $N_2 = 1.74747$
 $N_3 = 0.81818$
 $N_4 = 1.51515$
 $R = 3.18744$

Unit. $AB := 1$ Given. $N_1 := 2.37374$ $N_2 := 1.74747$ $N_3 := .81818$ $N_4 := 1.51515$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (C - A + D)}{B \cdot (C - A)} = 3.187426$$

$$Num := \frac{N_u \cdot (C - A + D)}{\sqrt{[N_u \cdot (C - A + D)]^2}}$$

$$Den := \frac{B \cdot (C - A)}{\sqrt{[B \cdot (C - A)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot (A - C)^2} \cdot (A - C - D)}{B \cdot \sqrt{N_u^2 \cdot (C - A + D)^2} \cdot (A - C)} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

0, 0, 0, 4: 0

1, 0, 0, 0:
$$\frac{N_u \cdot (A - 2) \cdot \sqrt{(A - 1)^2}}{(A - 1) \cdot \sqrt{N_u^2 \cdot (A - 2)^2}}$$

1, 0, 0, 4:
$$-\frac{N_u \cdot \sqrt{(A - 1)^2} \cdot (D - A + 1)}{(A - 1) \cdot \sqrt{N_u^2 \cdot (D - A + 1)^2}}$$

0, 2, 0, 0: 0

0, 2, 0, 4: 0

1, 2, 0, 0:
$$\frac{N_u \cdot (A - 2) \cdot \sqrt{B^2 \cdot (A - 1)^2}}{B \cdot (A - 1) \cdot \sqrt{N_u^2 \cdot (A - 2)^2}}$$

1, 2, 0, 4:
$$-\frac{N_u \cdot \sqrt{B^2 \cdot (A - 1)^2} \cdot (D - A + 1)}{B \cdot (A - 1) \cdot \sqrt{N_u^2 \cdot (D - A + 1)^2}}$$

0, 0, 3, 0:
$$\frac{C \cdot N_u \cdot \sqrt{(C - 1)^2}}{(C - 1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

0, 0, 3, 4:
$$\frac{N_u \cdot \sqrt{(C - 1)^2} \cdot (C + D - 1)}{\sqrt{N_u^2 \cdot (C + D - 1)^2} \cdot (C - 1)}$$

1, 0, 3, 0:
$$-\frac{N_u \cdot \sqrt{(A - C)^2} \cdot (C - A + 1)}{\sqrt{N_u^2 \cdot (C - A + 1)^2} \cdot (A - C)}$$

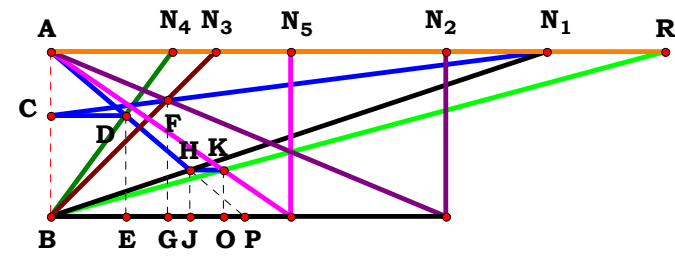
1, 0, 3, 4:
$$-\frac{N_u \cdot \sqrt{(A - C)^2} \cdot (C - A + D)}{\sqrt{N_u^2 \cdot (C - A + D)^2} \cdot (A - C)}$$

0, 2, 3, 0:
$$\frac{C \cdot N_u \cdot \sqrt{B^2 \cdot (C - 1)^2}}{B \cdot (C - 1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

0, 2, 3, 4:
$$\frac{N_u \cdot \sqrt{B^2 \cdot (C - 1)^2} \cdot (C + D - 1)}{B \cdot \sqrt{N_u^2 \cdot (C + D - 1)^2} \cdot (C - 1)}$$

1, 2, 3, 0:
$$-\frac{N_u \cdot \sqrt{B^2 \cdot (A - C)^2} \cdot (C - A + 1)}{B \cdot \sqrt{N_u^2 \cdot (C - A + 1)^2} \cdot (A - C)}$$

1, 2, 3, 4:
$$\frac{N_u \cdot \sqrt{B^2 \cdot (A - C)^2} \cdot (A - C - D)}{B \cdot \sqrt{N_u^2 \cdot (C - A + D)^2} \cdot (A - C)}$$



N₁ = 3.00000
N₂ = 2.38980
N₃ = 0.99977
N₄ = 0.73589
N₅ = 1.45287
R = 3.71634

Unit. AB := 1 Given. $N_1 := 3$ $N_2 := 2.38980$ $N_3 := .99977$
 $N_4 := .73589$ $N_5 := 1.45287$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}}{\mathbf{E} \cdot [\mathbf{A} \cdot (\mathbf{C} - \mathbf{A})]} = 3.716336 \quad \text{Num} := \frac{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}})^2}} \quad \text{Den} := \frac{\mathbf{E} \cdot [\mathbf{A} \cdot (\mathbf{C} - \mathbf{A})]}{\sqrt{[\mathbf{E} \cdot [\mathbf{A} \cdot (\mathbf{C} - \mathbf{A})]]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} - \mathbf{C})^2}}{\mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{A}) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}} = \mathbf{0}$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0: 0

0, 0, 0, 4, 0: 0

0, 0, 0, 0, 5: 0

0, 0, 0, 4, 5: 0

1, 0, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-1)^2}}{A \cdot (A-1) \cdot \sqrt{N_u^2}}$$

1, 0, 0, 4, 0:
$$\frac{D \cdot N_u \cdot \sqrt{A^2 \cdot (A-1)^2}}{A \cdot (A-1) \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 0, 0, 5:
$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A-1)^2}}{A \cdot E \cdot (A-1) \cdot \sqrt{N_u^2}}$$

1, 0, 0, 4, 5:
$$\frac{D \cdot N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A-1)^2}}{A \cdot E \cdot (A-1) \cdot \sqrt{D^2 \cdot N_u^2}}$$

0, 2, 0, 0, 0: 0

0, 2, 0, 4, 0: 0

0, 2, 0, 0, 5: 0

0, 2, 0, 4, 5: 0

1, 2, 0, 0, 0:
$$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot (A-1)^2}}{A \cdot (A-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 0, 4, 0:
$$\frac{B \cdot D \cdot N_u \cdot \sqrt{A^2 \cdot (A-1)^2}}{A \cdot (A-1) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

1, 2, 0, 0, 5:
$$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A-1)^2}}{A \cdot E \cdot (A-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

1, 2, 0, 4, 5:
$$\frac{B \cdot D \cdot N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A-1)^2}}{A \cdot E \cdot (A-1) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

0, 0, 3, 0, 0:
$$\frac{N_u \cdot \sqrt{(C-1)^2}}{(C-1) \cdot \sqrt{N_u^2}}$$

0, 0, 3, 4, 0:
$$\frac{D \cdot N_u \cdot \sqrt{(C-1)^2}}{(C-1) \cdot \sqrt{D^2 \cdot N_u^2}}$$

0, 0, 3, 0, 5:
$$\frac{N_u \cdot \sqrt{E^2 \cdot (C-1)^2}}{E \cdot (C-1) \cdot \sqrt{N_u^2}}$$

0, 0, 3, 4, 5:
$$\frac{D \cdot N_u \cdot \sqrt{E^2 \cdot (C-1)^2}}{E \cdot (C-1) \cdot \sqrt{D^2 \cdot N_u^2}}$$

1, 0, 3, 0, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-C)^2}}{A \cdot \sqrt{N_u^2 \cdot (A-C)}}$$

1, 0, 3, 4, 0:
$$\frac{D \cdot N_u \cdot \sqrt{A^2 \cdot (A-C)^2}}{A \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A-C)}}$$

1, 0, 3, 0, 5:
$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A-C)^2}}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A-C)}}$$

1, 0, 3, 4, 5:
$$\frac{D \cdot N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A-C)^2}}{A \cdot E \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A-C)}}$$

0, 2, 3, 0, 0:
$$\frac{B \cdot N_u \cdot \sqrt{(C-1)^2}}{(C-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

0, 2, 3, 4, 0:
$$\frac{B \cdot D \cdot N_u \cdot \sqrt{(C-1)^2}}{(C-1) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

0, 2, 3, 0, 5:
$$\frac{B \cdot N_u \cdot \sqrt{E^2 \cdot (C-1)^2}}{E \cdot (C-1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

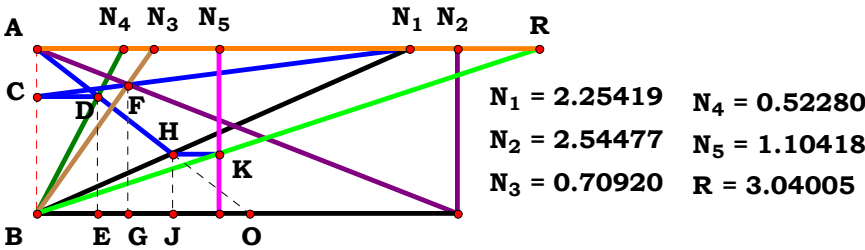
0, 2, 3, 4, 5:
$$\frac{B \cdot D \cdot N_u \cdot \sqrt{E^2 \cdot (C-1)^2}}{E \cdot (C-1) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

1, 2, 3, 0, 0:
$$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot (A-C)^2}}{A \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A-C)}}$$

1, 2, 3, 4, 0:
$$\frac{B \cdot D \cdot N_u \cdot \sqrt{A^2 \cdot (A-C)^2}}{A \cdot (A-C) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$

1, 2, 3, 0, 5:
$$\frac{B \cdot N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A-C)^2}}{A \cdot E \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A-C)}}$$

1, 2, 3, 4, 5:
$$\frac{B \cdot D \cdot N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A-C)^2}}{A \cdot E \cdot (C-A) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}$$



Unit. $AB := 1$ Given. $N_1 := 2.25419$ $N_2 := 2.54477$ $N_3 := .70920$

$N_4 := .52280$ $N_5 := 1.10418$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (A^2 - C \cdot A - B \cdot D)}{A \cdot E \cdot (A - C)} = 3.040066$$

$$Num := \frac{N_u \cdot (A^2 - C \cdot A - B \cdot D)}{\sqrt{\left[N_u \cdot (A^2 - C \cdot A - B \cdot D)\right]^2}}$$

$$Den := \frac{A \cdot E \cdot (A - C)}{\sqrt{\left[A \cdot E \cdot (A - C)\right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = -1$ $Den = -1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A - C)^2 \cdot (A^2 - C \cdot A - B \cdot D)}}{A \cdot E \cdot \sqrt{N_u^2 \cdot (C \cdot A - A^2 + B \cdot D)^2 \cdot (A - C)}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0: 0

0, 0, 0, 4, 0: 0

1, 0, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-1)^2 \cdot (A-A^2+1)}}{A \cdot \sqrt{N_u^2 \cdot (A-A^2+1)^2 \cdot (A-1)}}$$

1, 0, 0, 4, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-1)^2 \cdot (A-A^2+D)}}{A \cdot (A-1) \cdot \sqrt{N_u^2 \cdot (A-A^2+D)^2}}$$

0, 2, 0, 0, 0: 0

0, 2, 0, 4, 0: 0

1, 2, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-1)^2 \cdot (A-A^2+B)}}{A \cdot (A-1) \cdot \sqrt{N_u^2 \cdot (A-A^2+B)^2}}$$

1, 2, 0, 4, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-1)^2 \cdot (A-A^2+B \cdot D)}}{A \cdot (A-1) \cdot \sqrt{N_u^2 \cdot (A-A^2+B \cdot D)^2}}$$

0, 0, 3, 0, 0:
$$\frac{C \cdot N_u \cdot \sqrt{(C-1)^2}}{(C-1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

0, 0, 3, 4, 0:
$$\frac{N_u \cdot \sqrt{(C-1)^2 \cdot (C+D-1)}}{\sqrt{N_u^2 \cdot (C+D-1)^2 \cdot (C-1)}}$$

1, 0, 3, 0, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-C)^2 \cdot (C \cdot A-A^2+1)}}{A \cdot \sqrt{N_u^2 \cdot (C \cdot A-A^2+1)^2 \cdot (A-C)}}$$

1, 0, 3, 4, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-C)^2 \cdot (C \cdot A-A^2+D)}}{A \cdot (A-C) \cdot \sqrt{N_u^2 \cdot (C \cdot A-A^2+D)^2}}$$

0, 2, 3, 0, 0:
$$\frac{N_u \cdot \sqrt{(C-1)^2 \cdot (B+C-1)}}{\sqrt{N_u^2 \cdot (B+C-1)^2 \cdot (C-1)}}$$

0, 2, 3, 4, 0:
$$\frac{N_u \cdot \sqrt{(C-1)^2 \cdot (C+B \cdot D-1)}}{(C-1) \cdot \sqrt{N_u^2 \cdot (C+B \cdot D-1)^2}}$$

1, 2, 3, 0, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-C)^2 \cdot (C \cdot A-A^2+B)}}{A \cdot (A-C) \cdot \sqrt{N_u^2 \cdot (C \cdot A-A^2+B)^2}}$$

1, 2, 3, 4, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot (A-C)^2 \cdot (C \cdot A-A^2+B \cdot D)}}{A \cdot \sqrt{N_u^2 \cdot (C \cdot A-A^2+B \cdot D)^2 \cdot (A-C)}}$$



0, 0, 0, 0, 5: 0

0, 0, 0, 4, 5: 0

1, 0, 0, 0, 5:
$$-\frac{N_u \cdot (A - A^2 + 1) \cdot \sqrt{A^2 \cdot E^2 \cdot (A - 1)^2}}{A \cdot E \cdot \sqrt{N_u^2 \cdot (A - A^2 + 1)^2 \cdot (A - 1)}}$$

1, 0, 0, 4, 5:
$$-\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A - 1)^2} \cdot (A - A^2 + D)}{A \cdot E \cdot (A - 1) \cdot \sqrt{N_u^2 \cdot (A - A^2 + D)^2}}$$

0, 2, 0, 0, 5: 0

0, 2, 0, 4, 5: 0

1, 2, 0, 0, 5:
$$-\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A - 1)^2} \cdot (A - A^2 + B)}{A \cdot E \cdot (A - 1) \cdot \sqrt{N_u^2 \cdot (A - A^2 + B)^2}}$$

1, 2, 0, 4, 5:
$$-\frac{N_u \cdot (A - A^2 + B \cdot D) \cdot \sqrt{A^2 \cdot E^2 \cdot (A - 1)^2}}{A \cdot E \cdot (A - 1) \cdot \sqrt{N_u^2 \cdot (A - A^2 + B \cdot D)^2}}$$

0, 0, 3, 0, 5:
$$\frac{C \cdot N_u \cdot \sqrt{E^2 \cdot (C - 1)^2}}{E \cdot (C - 1) \cdot \sqrt{C^2 \cdot N_u^2}}$$

0, 0, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{E^2 \cdot (C - 1)^2} \cdot (C + D - 1)}{E \cdot \sqrt{N_u^2 \cdot (C + D - 1)^2 \cdot (C - 1)}}$$

1, 0, 3, 0, 5:
$$-\frac{N_u \cdot (C \cdot A - A^2 + 1) \cdot \sqrt{A^2 \cdot E^2 \cdot (A - C)^2}}{A \cdot E \cdot \sqrt{N_u^2 \cdot (C \cdot A - A^2 + 1)^2 \cdot (A - C)}}$$

1, 0, 3, 4, 5:
$$-\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A - C)^2} \cdot (C \cdot A - A^2 + D)}{A \cdot E \cdot (A - C) \cdot \sqrt{N_u^2 \cdot (C \cdot A - A^2 + D)^2}}$$

0, 2, 3, 0, 5:
$$\frac{N_u \cdot \sqrt{E^2 \cdot (C - 1)^2} \cdot (B + C - 1)}{E \cdot \sqrt{N_u^2 \cdot (B + C - 1)^2 \cdot (C - 1)}}$$

0, 2, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{E^2 \cdot (C - 1)^2} \cdot (C + B \cdot D - 1)}{E \cdot (C - 1) \cdot \sqrt{N_u^2 \cdot (C + B \cdot D - 1)^2}}$$

1, 2, 3, 0, 5:
$$-\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A - C)^2} \cdot (C \cdot A - A^2 + B)}{A \cdot E \cdot (A - C) \cdot \sqrt{N_u^2 \cdot (C \cdot A - A^2 + B)^2}}$$

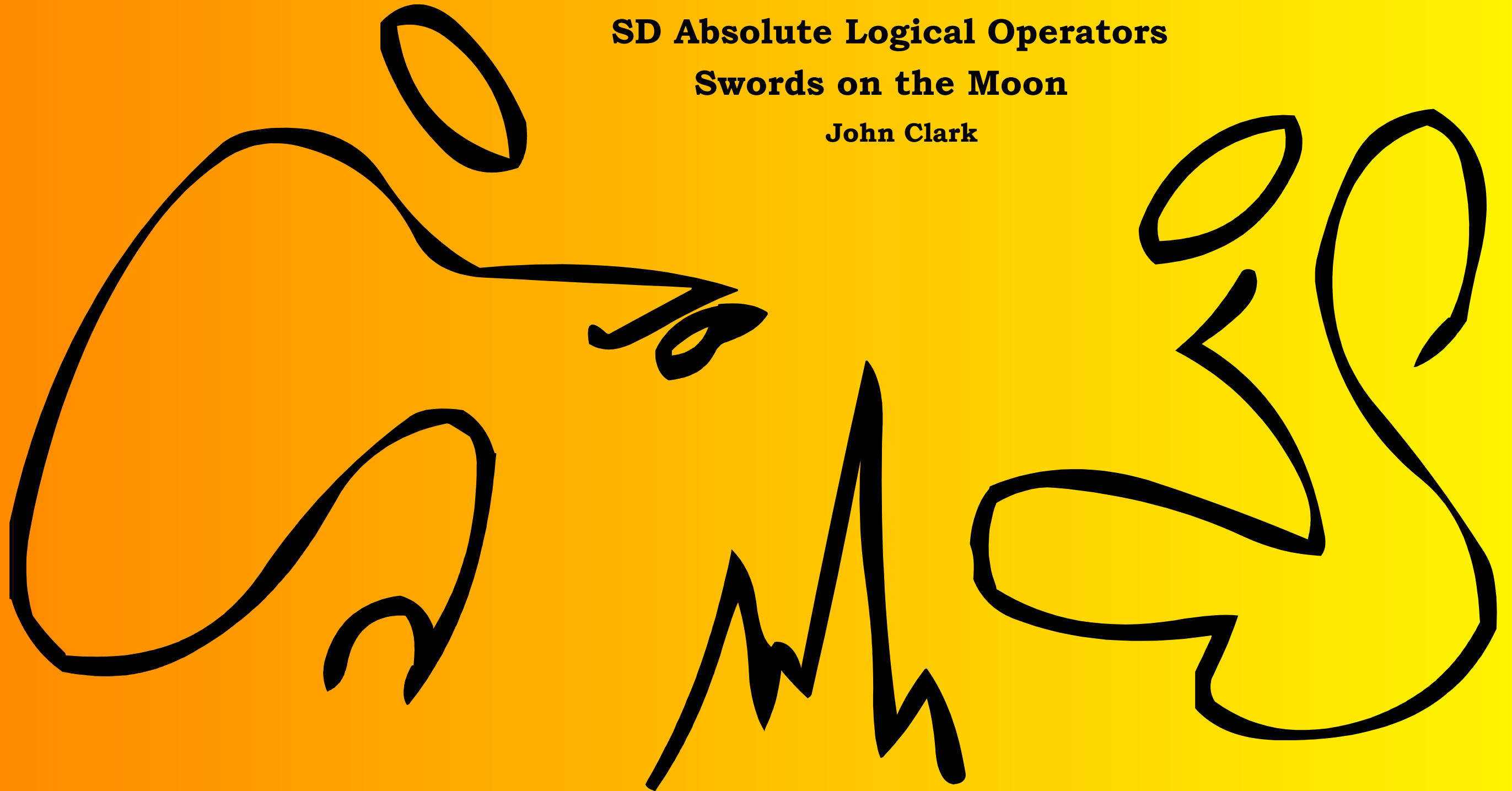
1, 2, 3, 4, 5:
$$\frac{N_u \cdot \sqrt{A^2 \cdot E^2 \cdot (A - C)^2} \cdot (A^2 - C \cdot A - B \cdot D)}{A \cdot E \cdot \sqrt{N_u^2 \cdot (C \cdot A - A^2 + B \cdot D)^2 \cdot (A - C)}}$$

Basic Analog Grammar

SD Absolute Logical Operators

Swords on the Moon

John Clark



John 312

2SMT1R0



$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

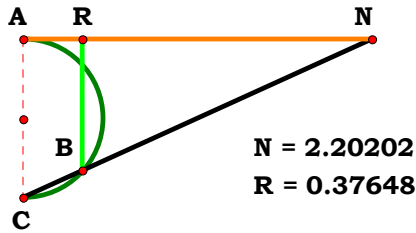
$$\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{A}^4 + 3 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4} = \mathbf{0.389595}$$

$$\text{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A}^4 + 3 \cdot \mathbf{A}^2 \cdot \mathbf{N_u}^2 + \mathbf{N_u}^4}{\sqrt{(\mathbf{A}^4 + 3 \cdot \mathbf{A}^2 \cdot \mathbf{N_u}^2 + \mathbf{N_u}^4)^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{(\mathbf{A}^4 + 3 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4)^2}}{(\mathbf{A}^4 + 3 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}} = 0$$



Unit. AC := 1 Given. N := 2.20202

$N_u := 3 \quad A := \frac{N_u}{N}$

Descriptions.

$$\frac{A \cdot N_u}{A^2 + N_u^2} = 0.376485$$

$$\text{Num} := \frac{A \cdot N_u}{\sqrt{(A \cdot N_u)^2}}$$

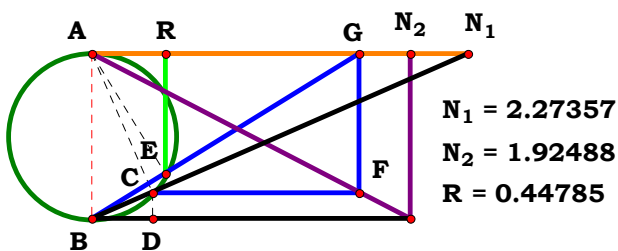
$$\text{Den} := \frac{A^2 + N_u^2}{\sqrt{(A^2 + N_u^2)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot N_u \cdot \sqrt{(A^2 + N_u^2)^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}} = 0$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$
$$\frac{B \cdot N_u^3 \cdot (A^2 + N_u^2)}{A^4 \cdot B^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6} = 0.447853 \quad \text{Num} := \frac{B \cdot N_u^3 \cdot (A^2 + N_u^2)}{\sqrt{[B \cdot N_u^3 \cdot (A^2 + N_u^2)]^2}} \quad \text{Den} := \frac{A^4 \cdot B^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6}{\sqrt{(A^4 \cdot B^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A^4 \cdot B^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6}{\sqrt{(A^4 \cdot B^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6)^2}} = 0$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u^6 + N_u^4 + 2 \cdot N_u^2 + 1}{\sqrt{\left(N_u^6 + N_u^4 + 2 \cdot N_u^2 + 1\right)^2}}$$

1, 0:

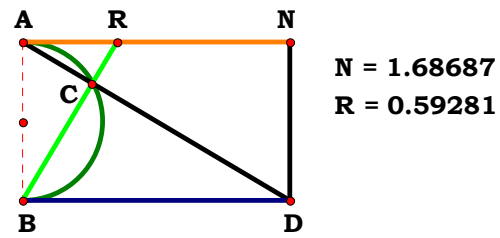
$$\frac{A^4 + 2 \cdot A^2 \cdot N_u^2 + N_u^6 + N_u^4}{\sqrt{\left(A^4 + 2 \cdot A^2 \cdot N_u^2 + N_u^6 + N_u^4\right)^2}}$$

0, 2:

$$\frac{B^2 \cdot N_u^4 + 2 \cdot B^2 \cdot N_u^2 + B^2 + N_u^6}{\sqrt{\left(B^2 \cdot N_u^4 + 2 \cdot B^2 \cdot N_u^2 + B^2 + N_u^6\right)^2}}$$

1, 2:

$$\frac{A^4 \cdot B^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6}{\sqrt{\left(A^4 \cdot B^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6\right)^2}}$$



Unit. $AB := 1$ Given. $N := 1.68687$

$N_u := 3 \quad A := \frac{N_u}{N}$

Descriptions.

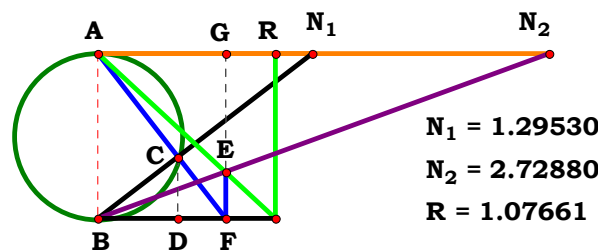
$\frac{A}{N_u} = 0.592814 \qquad \text{Num} := \frac{A}{\sqrt{A^2}} \qquad \text{Den} := \frac{N_u}{\sqrt{N_u^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$

Definitions.

$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$

$L - \frac{A \cdot \sqrt{N_u^2}}{N_u \cdot \sqrt{A^2}} = 0$

2SMT1R4



Unit. AB := 1 **Given.** $N_1 := 1.29530$ $N_2 := 2.72880$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}{\mathbf{N}_{\mathbf{u}}^2 - \mathbf{A} \cdot \mathbf{B}} = 1.076613 \quad \mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})^2}} \quad \mathbf{Den} := \frac{\mathbf{N}_{\mathbf{u}}^2 - \mathbf{A} \cdot \mathbf{B}}{\sqrt{(\mathbf{N}_{\mathbf{u}}^2 - \mathbf{A} \cdot \mathbf{B})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left(\mathbf{N}_{\mathbf{u}}^2 - \mathbf{A} \cdot \mathbf{B}\right)^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot \left(\mathbf{N}_{\mathbf{u}}^2 - \mathbf{A} \cdot \mathbf{B}\right)}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u \cdot \sqrt{\left(N_u^2 - 1\right)^2}}{\sqrt{N_u^2} \cdot \left(N_u^2 - 1\right)}$$

1, 0:

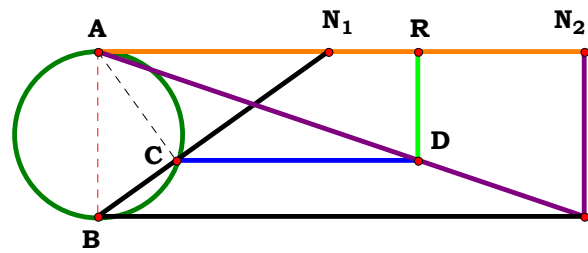
$$-\frac{A \cdot N_u \cdot \sqrt{\left(A - N_u^2\right)^2}}{\left(A - N_u^2\right) \cdot \sqrt{A^2 \cdot N_u^2}}$$

0, 2:

$$-\frac{N_u \cdot \sqrt{\left(B - N_u^2\right)^2}}{\sqrt{N_u^2} \cdot \left(B - N_u^2\right)}$$

1, 2:

$$\frac{A \cdot N_u \cdot \sqrt{\left(N_u^2 - A \cdot B\right)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot \left(N_u^2 - A \cdot B\right)}$$



$N_1 = 1.39216$
 $N_2 = 2.94189$
 $R = 1.94060$

Unit. $AB := 1$ Given. $N_1 := 1.39216$ $N_2 := 2.94189$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u^3}{B \cdot (A^2 + N_u^2)} = 1.940603$$

$$Num := \frac{N_u^3}{\sqrt{(N_u^3)^2}}$$

$$Den := \frac{B \cdot (A^2 + N_u^2)}{\sqrt{[B \cdot (A^2 + N_u^2)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u^3 \cdot \sqrt{B^2 \cdot (A^2 + N_u^2)^2}}{B \cdot \sqrt{N_u^6 \cdot (A^2 + N_u^2)}} = 0$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u^3 \cdot \sqrt{(N_u^2 + 1)^2}}{\sqrt{N_u^6 \cdot (N_u^2 + 1)}}$$

1, 0:

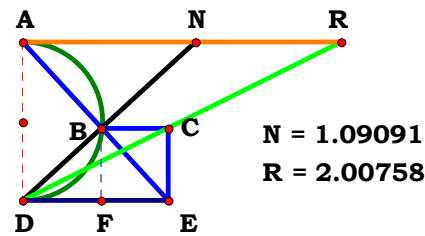
$$\frac{N_u^3 \cdot \sqrt{(A^2 + N_u^2)^2}}{\sqrt{N_u^6 \cdot (A^2 + N_u^2)}}$$

0, 2:

$$\frac{N_u^3 \cdot \sqrt{B^2 \cdot (N_u^2 + 1)^2}}{B \cdot \sqrt{N_u^6 \cdot (N_u^2 + 1)}}$$

1, 2:

$$\frac{N_u^3 \cdot \sqrt{B^2 \cdot (A^2 + N_u^2)^2}}{B \cdot \sqrt{N_u^6 \cdot (A^2 + N_u^2)}}$$



Unit. AD := 1 Given. N := 1.09091

$N_u := 3 \quad A := \frac{N_u}{N}$

Descriptions.

$$\frac{A^2 + N_u^2}{A \cdot N_u} = 2.007576$$

$$Num := \frac{A^2 + N_u^2}{\sqrt{(A^2 + N_u^2)^2}}$$

$$Den := \frac{A \cdot N_u}{\sqrt{(A \cdot N_u)^2}}$$

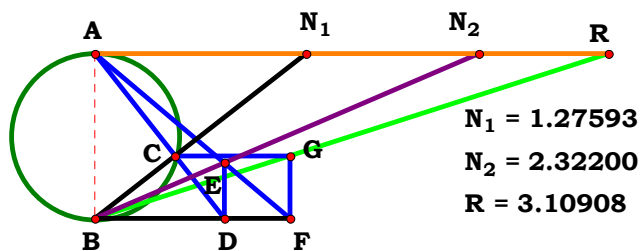
$$L := \frac{Num}{Den}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{A^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}}{A \cdot N_u \cdot \sqrt{(A^2 + N_u^2)^2}} = 0$$

2SMT1R7


$$\mathbf{N}_u := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2}$$

$$\frac{\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)}{\mathbf{A} \cdot (\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{B})} = 3.109074 \quad \mathbf{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)}{\sqrt{[\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)]^2}} \quad \mathbf{Den} := \frac{\mathbf{A} \cdot (\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{B})}{\sqrt{[\mathbf{A} \cdot (\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{B})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{N}_{\mathbf{u}}^2 - \mathbf{A} \cdot \mathbf{B})^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}}{\mathbf{A} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{N}_{\mathbf{u}}^2 - \mathbf{A} \cdot \mathbf{B})}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u \cdot \sqrt{(N_u^2 - 1)^2} \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2} \cdot (N_u^2 - 1)}$$

1, 0:

$$-\frac{N_u \cdot \sqrt{A^2 \cdot (A - N_u^2)^2} \cdot (A^2 + N_u^2)}{A \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A - N_u^2)}$$

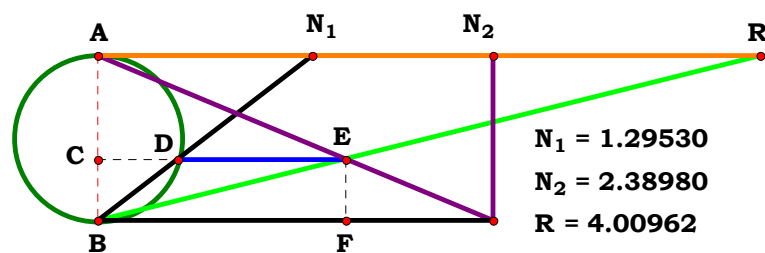
0, 2:

$$-\frac{N_u \cdot (N_u^2 + 1) \cdot \sqrt{(B - N_u^2)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2} \cdot (B - N_u^2)}$$

1, 2:

$$\frac{N_u \cdot \sqrt{A^2 \cdot (N_u^2 - A \cdot B)^2} \cdot (A^2 + N_u^2)}{A \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (N_u^2 - A \cdot B)}$$

2SMT1R8



Unit. AB := 1 Given. N₁ := 1.29530 N₂ := 2.38980

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{N_u^3}{A^2 \cdot B} = 4.009611 \quad \text{Num} := \frac{N_u^3}{\sqrt{(N_u^3)^2}} \quad \text{Den} := \frac{A^2 \cdot B}{\sqrt{(A^2 \cdot B)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^3 \cdot \sqrt{A^4 \cdot B^2}}{A^2 \cdot B \cdot \sqrt{N_u^6}} = 0$$



For 2 variables there are 4 subsets.

0, 0: $\frac{N_u^3}{\sqrt{N_u^6}}$

1, 0: $\frac{N_u^3 \cdot \sqrt{A^4}}{A^2 \cdot \sqrt{N_u^6}}$

0, 2: $\frac{N_u^3 \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^6}}$

1, 2: $\frac{N_u^3 \cdot \sqrt{A^4 \cdot B^2}}{A^2 \cdot B \cdot \sqrt{N_u^6}}$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0:

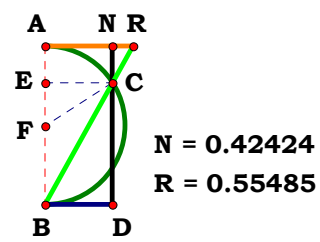
$$\frac{N_u \cdot \sqrt{A^4} \cdot (A^2 + N_u^2)}{A^2 \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2:

$$\frac{N_u \cdot \sqrt{B^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2:

$$\frac{N_u \cdot \sqrt{A^4 \cdot B^2} \cdot (A^2 + N_u^2)}{A^2 \cdot B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$



Unit. **AB** := 1 Given. **N** := .42424

N_u := 3 **A** := $\frac{\mathbf{N_u}}{\mathbf{N}}$

Descriptions.

$$\frac{2 \cdot \mathbf{N_u}}{\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}} = 0.554842$$

$$\mathbf{Num} := \frac{2 \cdot \mathbf{N_u}}{\sqrt{(2 \cdot \mathbf{N_u})^2}}$$

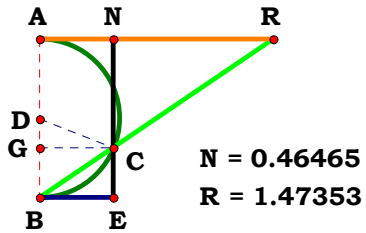
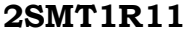
$$\mathbf{Den} := \frac{\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}}{\sqrt{\left(\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}\right)^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$\mathbf{L} - \frac{\mathbf{N_u} \cdot \sqrt{\left(\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}\right)^2}}{\left(\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}\right) \cdot \sqrt{\mathbf{N_u}^2}} = 0$$



Unit. **AB** := 1 **Given.** **N** := .46465

$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

Descriptions.

$$\frac{2 \cdot N_u}{A - \sqrt{A^2 - 4 \cdot N_u^2}} = 1.473502$$

$$\mathbf{Num} := \frac{2 \cdot \mathbf{N}_u}{\sqrt{(2 \cdot \mathbf{N}_u)^2}}$$

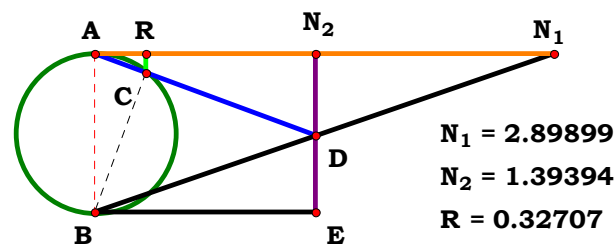
$$\mathbf{Den} := \frac{\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2}}{\sqrt{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right)^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right)^2}}{\sqrt{\mathbf{N}_{\mathbf{u}}^2} \cdot \left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right)} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 2.89899$ $N_2 := 1.39394$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u \cdot (B - A)}{A^2 - 2 \cdot A \cdot B + B^2 + N_u^2} = 0.327074$$

$$Num := \frac{N_u \cdot (B - A)}{\sqrt{[N_u \cdot (B - A)]^2}}$$

$$Den := \frac{A^2 - 2 \cdot A \cdot B + B^2 + N_u^2}{\sqrt{(A^2 - 2 \cdot A \cdot B + B^2 + N_u^2)^2}} \quad L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{(A^2 - 2 \cdot A \cdot B + B^2 + N_u^2)^2} \cdot (B - A)}{\sqrt{N_u^2 \cdot (A - B)^2 \cdot (A^2 - 2 \cdot A \cdot B + B^2 + N_u^2)}} = 0$$



For 2 variables there are 4 subsets.

0, 0: 0

1, 0:
$$-\frac{N_u \cdot (A-1) \cdot \sqrt{\left(A^2 - 2 \cdot A + N_u^2 + 1\right)^2}}{\sqrt{N_u^2 \cdot (A-1)^2 \cdot \left(A^2 - 2 \cdot A + N_u^2 + 1\right)}}$$

0, 2:
$$\frac{N_u \cdot (B-1) \cdot \sqrt{\left(B^2 - 2 \cdot B + N_u^2 + 1\right)^2}}{\sqrt{N_u^2 \cdot (B-1)^2 \cdot \left(B^2 - 2 \cdot B + N_u^2 + 1\right)}}$$

1, 2:
$$\frac{N_u \cdot \sqrt{\left(A^2 - 2 \cdot A \cdot B + B^2 + N_u^2\right)^2} \cdot (B-A)}{\sqrt{N_u^2 \cdot (A-B)^2 \cdot \left(A^2 - 2 \cdot A \cdot B + B^2 + N_u^2\right)}}$$



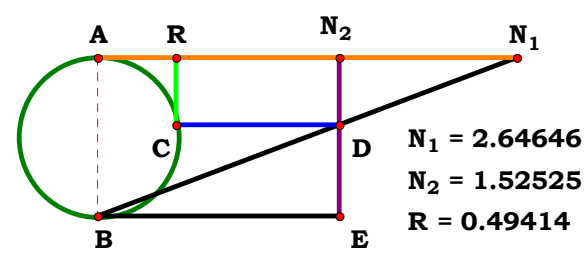
For 2 variables there are 4 subsets.

0, 0: 0

1, 0:
$$-\frac{(\mathbf{A}-1)\cdot\sqrt{\mathbf{N_u}^2}}{\mathbf{N_u}\cdot\sqrt{(\mathbf{A}-1)^2}}$$

0, 2:
$$\frac{(\mathbf{B}-1)\cdot\sqrt{\mathbf{N_u}^2}}{\mathbf{N_u}\cdot\sqrt{(\mathbf{B}-1)^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{N_u}^2}\cdot(\mathbf{B}-\mathbf{A})}{\mathbf{N_u}\cdot\sqrt{(\mathbf{A}-\mathbf{B})^2}}$$



Unit. $AB := 1$ Given. $N_1 := 2.64646$ $N_2 := 1.52525$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

$\frac{A \cdot \sqrt{B - A}}{B \cdot \sqrt{A}} = 0.494138$ $Num := \frac{A \cdot \sqrt{B - A}}{\sqrt{[A \cdot \sqrt{B - A}]^2}}$ $Den := \frac{B \cdot \sqrt{A}}{\sqrt{(B \cdot \sqrt{A})^2}}$ $L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{\sqrt{A} \cdot \sqrt{B - A} \cdot \sqrt{A \cdot B^2}}{B \cdot \sqrt{-A^2 \cdot (A - B)}} = 0$



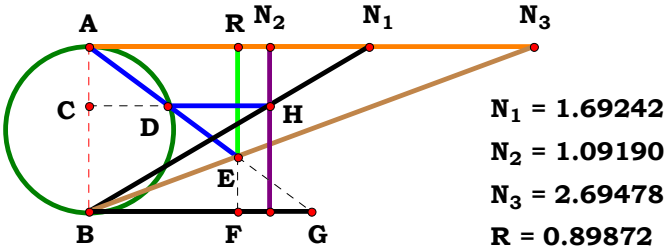
For 2 variables there are 4 subsets.

0, 0: 0

1, 0: $\frac{\mathbf{A} \cdot \sqrt{\mathbf{1} - \mathbf{A}}}{\sqrt{-\mathbf{A}^2 \cdot (\mathbf{A} - \mathbf{1})}}$

0, 2: $\frac{\sqrt{\mathbf{B}^2}}{\mathbf{B}}$

1, 2: $\frac{\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{B} - \mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}^2}}{\mathbf{B} \cdot \sqrt{-\mathbf{A}^2 \cdot (\mathbf{A} - \mathbf{B})}}$



Unit. $AB := 1$ Given. $N_1 := 1.69242$ $N_2 := 1.09190$ $N_3 := 2.69478$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u \cdot \sqrt{A \cdot (B - A)}}{C \cdot \sqrt{A \cdot (B - A)} + N_u \cdot (B - A)} = 0.898721$$

$$Num := \frac{N_u \cdot \sqrt{A \cdot (B - A)}}{\sqrt{\left[N_u \cdot \sqrt{A \cdot (B - A)}\right]^2}}$$

$$Den := \frac{C \cdot \sqrt{A \cdot (B - A)} + N_u \cdot (B - A)}{\sqrt{\left[C \cdot \sqrt{A \cdot (B - A)} + N_u \cdot (B - A)\right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{A \cdot (B - A)} \cdot \sqrt{\left[N_u \cdot (A - B) - C \cdot \sqrt{A \cdot (B - A)}\right]^2}}{\left(C \cdot \sqrt{A \cdot B - A^2} - A \cdot N_u + B \cdot N_u\right) \cdot \sqrt{A \cdot N_u^2 \cdot (B - A)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$\frac{N_u \cdot \sqrt{\left[\sqrt{-A \cdot (A - 1)} - N_u \cdot (A - 1)\right]^2 \cdot \sqrt{-A \cdot (A - 1)}}}{\left(N_u - A \cdot N_u + \sqrt{A - A^2}\right) \cdot \sqrt{-A \cdot N_u^2 \cdot (A - 1)}}$$

0, 2, 0:
$$\frac{N_u \cdot \sqrt{\left[\sqrt{B - 1} + N_u \cdot (B - 1)\right]^2 \cdot \sqrt{B - 1}}}{\sqrt{N_u^2 \cdot (B - 1)} \cdot \left(B \cdot N_u - N_u + \sqrt{B - 1}\right)}$$

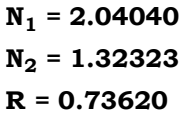
1, 2, 0:
$$\frac{N_u \cdot \sqrt{\left[\sqrt{-A \cdot (A - B)} - N_u \cdot (A - B)\right]^2 \cdot \sqrt{-A \cdot (A - B)}}}{\sqrt{-A \cdot N_u^2 \cdot (A - B)} \cdot \left(B \cdot N_u - A \cdot N_u + \sqrt{A \cdot B - A^2}\right)}$$

0, 0, 3: 0

1, 0, 3:
$$\frac{N_u \cdot \sqrt{\left[C \cdot \sqrt{-A \cdot (A - 1)} - N_u \cdot (A - 1)\right]^2 \cdot \sqrt{-A \cdot (A - 1)}}}{\left(N_u - A \cdot N_u + C \cdot \sqrt{A - A^2}\right) \cdot \sqrt{-A \cdot N_u^2 \cdot (A - 1)}}$$

0, 2, 3:
$$\frac{N_u \cdot \sqrt{B - 1} \cdot \sqrt{\left[C \cdot \sqrt{B - 1} + N_u \cdot (B - 1)\right]^2}}{\sqrt{N_u^2 \cdot (B - 1)} \cdot \left(C \cdot \sqrt{B - 1} - N_u + B \cdot N_u\right)}$$

1, 2, 3:
$$\frac{N_u \cdot \sqrt{A \cdot (B - A)} \cdot \sqrt{\left[N_u \cdot (A - B) - C \cdot \sqrt{A \cdot (B - A)}\right]^2}}{\left(C \cdot \sqrt{A \cdot B - A^2} - A \cdot N_u + B \cdot N_u\right) \cdot \sqrt{A \cdot N_u^2 \cdot (B - A)}}$$



Unit. $\text{AB} := 1$ **Given.** $N_1 := 2.04040$ $N_2 := 1.32323$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{\mathbf{B} \cdot \sqrt{\mathbf{B} - \mathbf{A}}}{\sqrt{\mathbf{A} \cdot \mathbf{B}^2}} = \mathbf{0.736196} \quad \mathbf{Num} := \frac{\mathbf{B} \cdot \sqrt{\mathbf{B} - \mathbf{A}}}{\sqrt{(\mathbf{B} \cdot \sqrt{\mathbf{B} - \mathbf{A}})^2}} \quad \mathbf{Den} := \frac{\sqrt{\mathbf{A} \cdot \mathbf{B}^2}}{\sqrt{(\sqrt{\mathbf{A} \cdot \mathbf{B}^2})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \sqrt{\mathbf{B} - \mathbf{A}}}{\sqrt{\mathbf{B}^2 \cdot (\mathbf{B} - \mathbf{A})}} = 0$$



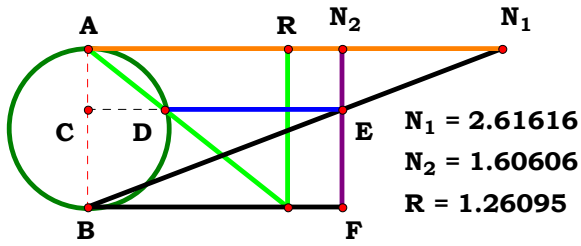
For 2 variables there are 4 subsets.

0, 0: 0

1, 0: 1

0, 2: $\frac{\mathbf{B} \cdot \sqrt{\mathbf{B} - 1}}{\sqrt{\mathbf{B}^2 \cdot (\mathbf{B} - 1)}}$

1, 2: $\frac{\mathbf{B} \cdot \sqrt{\mathbf{B} - \mathbf{A}}}{\sqrt{\mathbf{B}^2 \cdot (\mathbf{B} - \mathbf{A})}}$



Unit. AB := 1 Given. $N_1 := 2.61616$ $N_2 := 1.60606$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{\sqrt{\mathbf{N}_u} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}{\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{N}_u - \mathbf{A} \cdot \mathbf{N}_u}} = 1.260952$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{N}_u} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}{\sqrt{\left(\sqrt{\mathbf{N}_u} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}\right)^2}}$$

$$\mathbf{Den} := \frac{\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}}{\sqrt{(\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{N}_{\mathbf{u}}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{-\mathbf{B} \cdot (\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}}{\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}}} = 0$$



For 2 variables there are 4 subsets.

0, 0: 0

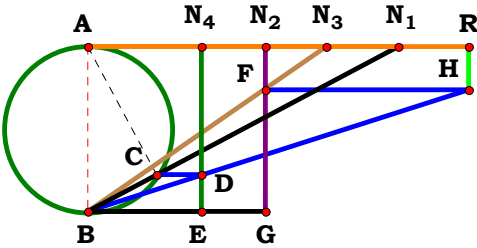
1, 0: $\frac{\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{N_u}}}{\sqrt{\mathbf{A} \cdot \mathbf{N_u}}}$

0, 2: $\frac{\sqrt{\mathbf{N_u}} \cdot \sqrt{-\mathbf{B} \cdot (\mathbf{N_u} - \mathbf{B} \cdot \mathbf{N_u})}}{\sqrt{\mathbf{B} \cdot \mathbf{N_u} - \mathbf{N_u}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{N_u}}}$

1, 2: $\frac{\sqrt{\mathbf{N_u}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{-\mathbf{B} \cdot (\mathbf{A} \cdot \mathbf{N_u} - \mathbf{B} \cdot \mathbf{N_u})}}{\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{N_u} - \mathbf{A} \cdot \mathbf{N_u}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N_u}}}$



2SMT2R6



N₁ = 1.87645
N₂ = 1.07253
N₃ = 1.44532
N₄ = 0.68746
R = 2.30640

Unit. AB := 1 Given. N₁ := 1.87645 N₂ := 1.07253 N₃ := 1.44532 N₄ := .68746

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{C \cdot N_u \cdot (A^2 + N_u^2)}{A^2 \cdot B \cdot D} = 2.306394$$

$$\text{Num} := \frac{C \cdot N_u \cdot (A^2 + N_u^2)}{\sqrt{[C \cdot N_u \cdot (A^2 + N_u^2)]^2}}$$

$$\text{Den} := \frac{A^2 \cdot B \cdot D}{\sqrt{(A^2 \cdot B \cdot D)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{C \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^4 \cdot B^2 \cdot D^2}}{A^2 \cdot B \cdot D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{N_u \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{A^4} \cdot (A^2 + N_u^2)}{A^2 \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{B^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{A^4 \cdot B^2} \cdot (A^2 + N_u^2)}{A^2 \cdot B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 0, 3, 0:

$$\frac{C \cdot N_u \cdot (N_u^2 + 1)}{\sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0, 3, 0:

$$\frac{C \cdot N_u \cdot \sqrt{A^4} \cdot (A^2 + N_u^2)}{A^2 \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2, 3, 0:

$$\frac{C \cdot N_u \cdot \sqrt{B^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2, 3, 0:

$$\frac{C \cdot N_u \cdot \sqrt{A^4 \cdot B^2} \cdot (A^2 + N_u^2)}{A^2 \cdot B \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 0, 0, 4:

$$\frac{N_u \cdot \sqrt{D^2} \cdot (N_u^2 + 1)}{D \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0, 0, 4:

$$\frac{N_u \cdot \sqrt{A^4 \cdot D^2} \cdot (A^2 + N_u^2)}{A^2 \cdot D \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2, 0, 4:

$$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (N_u^2 + 1)}{B \cdot D \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2, 0, 4:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^4 \cdot B^2 \cdot D^2}}{A^2 \cdot B \cdot D \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 0, 3, 4:

$$\frac{C \cdot N_u \cdot \sqrt{D^2} \cdot (N_u^2 + 1)}{D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0, 3, 4:

$$\frac{C \cdot N_u \cdot \sqrt{A^4 \cdot D^2} \cdot (A^2 + N_u^2)}{A^2 \cdot D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$$

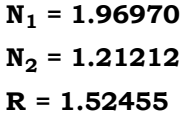
0, 2, 3, 4:

$$\frac{C \cdot N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (N_u^2 + 1)}{B \cdot D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2, 3, 4:

$$\frac{C \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^4 \cdot B^2 \cdot D^2}}{A^2 \cdot B \cdot D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$$

2SMT2R7


$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$
$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{N}_u^2} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\mathbf{B} \cdot \mathbf{N}_u \cdot \sqrt{(\mathbf{A}^2 + \mathbf{N}_u^2)^2}} = \mathbf{0}$$



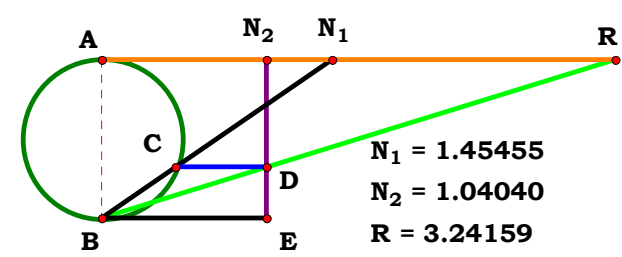
For 2 variables there are 4 subsets.

0, 0:
$$\frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot \left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)}{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)^2}}$$

1, 0:
$$\frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot \left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)}{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)^2}}$$

0, 2:
$$\frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot \left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)}{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot \left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)}{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)^2}}$$



Unit. $AB := 1$ Given. $N_1 := 1.45455$ $N_2 := 1.04040$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2}$$

Descriptions.

$$\frac{N_u \cdot (A^2 + N_u^2)}{A^2 \cdot B} = 3.241591 \quad \text{Num} := \frac{N_u \cdot (A^2 + N_u^2)}{\sqrt{[N_u \cdot (A^2 + N_u^2)]^2}} \quad \text{Den} := \frac{A^2 \cdot B}{\sqrt{(A^2 \cdot B)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$

$$L - \frac{N_u \cdot \sqrt{A^4 \cdot B^2} \cdot (A^2 + N_u^2)}{A^2 \cdot B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}} = 0$$



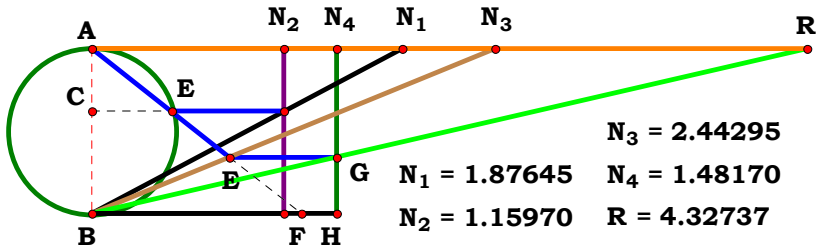
For 2 variables there are 4 subsets.

0, 0:
$$\frac{N_u \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0:
$$\frac{N_u \cdot \sqrt{A^4} \cdot (A^2 + N_u^2)}{A^2 \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2:
$$\frac{N_u \cdot \sqrt{B^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2:
$$\frac{N_u \cdot \sqrt{A^4 \cdot B^2} \cdot (A^2 + N_u^2)}{A^2 \cdot B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$



Unit. $AB := 1$ Given. $N_1 := 1.87645$ $N_2 := 1.15970$ $N_3 := 2.44295$ $N_4 := 1.48170$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$\frac{N_u \cdot \left[N_u \cdot (B - A) + C \cdot \sqrt{A \cdot (B - A)} \right]}{C \cdot D \cdot \sqrt{A \cdot (B - A)}} = 4.327379 \quad \text{Num} := \frac{N_u \cdot \left[N_u \cdot (B - A) + C \cdot \sqrt{A \cdot (B - A)} \right]}{\sqrt{\left[N_u \cdot \left[N_u \cdot (B - A) + C \cdot \sqrt{A \cdot (B - A)} \right] \right]^2}} \quad \text{Den} := \frac{C \cdot D \cdot \sqrt{A \cdot (B - A)}}{\sqrt{\left[C \cdot D \cdot \sqrt{A \cdot (B - A)} \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left(C \cdot \sqrt{A \cdot B - A^2} - A \cdot N_u + B \cdot N_u \right) \cdot \sqrt{-A \cdot C^2 \cdot D^2 \cdot (A - B)}}{C \cdot D \cdot \sqrt{A \cdot (B - A)} \cdot \sqrt{N_u^2 \cdot \left[N_u \cdot (A - B) - C \cdot \sqrt{-A \cdot (A - B)} \right]^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

0, 0, 0, 4: 0

1, 0, 0, 0:
$$\frac{N_u \cdot \left(N_u - A \cdot N_u + \sqrt{A - A^2} \right)}{\sqrt{N_u^2 \cdot \left[\sqrt{-A \cdot (A - 1)} - N_u \cdot (A - 1) \right]^2}}$$

1, 0, 0, 4:
$$\frac{N_u \cdot \left(N_u - A \cdot N_u + \sqrt{A - A^2} \right) \cdot \sqrt{-A \cdot D^2 \cdot (A - 1)}}{D \cdot \sqrt{-A \cdot (A - 1)} \cdot \sqrt{N_u^2 \cdot \left[\sqrt{-A \cdot (A - 1)} - N_u \cdot (A - 1) \right]^2}}$$

0, 2, 0, 0:
$$\frac{N_u \cdot \left(B \cdot N_u - N_u + \sqrt{B - 1} \right)}{\sqrt{N_u^2 \cdot \left[\sqrt{B - 1} + N_u \cdot (B - 1) \right]^2}}$$

0, 2, 0, 4:
$$\frac{N_u \cdot \sqrt{D^2 \cdot (B - 1)} \cdot \left(B \cdot N_u - N_u + \sqrt{B - 1} \right)}{D \cdot \sqrt{B - 1} \cdot \sqrt{N_u^2 \cdot \left[\sqrt{B - 1} + N_u \cdot (B - 1) \right]^2}}$$

1, 2, 0, 0:
$$\frac{N_u \cdot \left(B \cdot N_u - A \cdot N_u + \sqrt{A \cdot B - A^2} \right)}{\sqrt{N_u^2 \cdot \left[\sqrt{-A \cdot (A - B)} - N_u \cdot (A - B) \right]^2}}$$

1, 2, 0, 4:
$$\frac{N_u \cdot \sqrt{-A \cdot D^2 \cdot (A - B)} \cdot \left(B \cdot N_u - A \cdot N_u + \sqrt{A \cdot B - A^2} \right)}{D \cdot \sqrt{N_u^2 \cdot \left[\sqrt{-A \cdot (A - B)} - N_u \cdot (A - B) \right]^2} \cdot \sqrt{-A \cdot (A - B)}}$$

0, 0, 3, 0: 0

0, 0, 3, 4: 0

1, 0, 3, 0:
$$\frac{N_u \cdot \left(N_u - A \cdot N_u + C \cdot \sqrt{A - A^2} \right) \cdot \sqrt{-A \cdot C^2 \cdot (A - 1)}}{C \cdot \sqrt{N_u^2 \cdot \left[C \cdot \sqrt{-A \cdot (A - 1)} - N_u \cdot (A - 1) \right]^2} \cdot \sqrt{-A \cdot (A - 1)}}$$

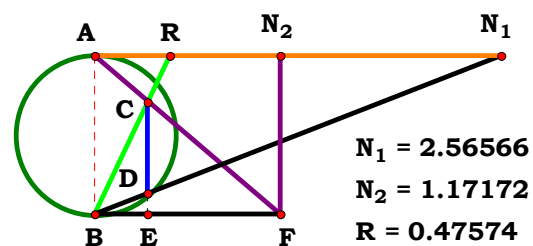
1, 0, 3, 4:
$$\frac{N_u \cdot \left(N_u - A \cdot N_u + C \cdot \sqrt{A - A^2} \right) \cdot \sqrt{-A \cdot C^2 \cdot D^2 \cdot (A - 1)}}{C \cdot D \cdot \sqrt{N_u^2 \cdot \left[C \cdot \sqrt{-A \cdot (A - 1)} - N_u \cdot (A - 1) \right]^2} \cdot \sqrt{-A \cdot (A - 1)}}$$

0, 2, 3, 0:
$$\frac{N_u \cdot \sqrt{C^2 \cdot (B - 1)} \cdot \left(C \cdot \sqrt{B - 1} - N_u + B \cdot N_u \right)}{C \cdot \sqrt{B - 1} \cdot \sqrt{N_u^2 \cdot \left[C \cdot \sqrt{B - 1} + N_u \cdot (B - 1) \right]^2}}$$

0, 2, 3, 4:
$$\frac{N_u \cdot \sqrt{C^2 \cdot D^2 \cdot (B - 1)} \cdot \left(C \cdot \sqrt{B - 1} - N_u + B \cdot N_u \right)}{C \cdot D \cdot \sqrt{B - 1} \cdot \sqrt{N_u^2 \cdot \left[C \cdot \sqrt{B - 1} + N_u \cdot (B - 1) \right]^2}}$$

1, 2, 3, 0:
$$\frac{N_u \cdot \sqrt{-A \cdot C^2 \cdot (A - B)} \cdot \left(C \cdot \sqrt{A \cdot B - A^2} - A \cdot N_u + B \cdot N_u \right)}{C \cdot \sqrt{-A \cdot (A - B)} \cdot \sqrt{N_u^2 \cdot \left[N_u \cdot (A - B) - C \cdot \sqrt{-A \cdot (A - B)} \right]^2}}$$

1, 2, 3, 4:
$$\frac{N_u \cdot \left(C \cdot \sqrt{A \cdot B - A^2} - A \cdot N_u + B \cdot N_u \right) \cdot \sqrt{-A \cdot C^2 \cdot D^2 \cdot (A - B)}}{C \cdot D \cdot \sqrt{A \cdot (B - A)} \cdot \sqrt{N_u^2 \cdot \left[N_u \cdot (A - B) - C \cdot \sqrt{-A \cdot (A - B)} \right]^2}}$$



Unit. $\text{AB} := 1$ **Given.** $\text{N}_1 := 2.56566$ $\text{N}_2 := 1.17172$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{A \cdot N_u}{A^2 - B \cdot A + N_u^2} = 0.475743$$

$$\mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_u}{\sqrt{(\mathbf{A} \cdot \mathbf{N}_u)^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2}{\sqrt{(\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2)^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{(\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{\sqrt{N_u^4}}{N_u \cdot \sqrt{N_u^2}}$$

1, 0:

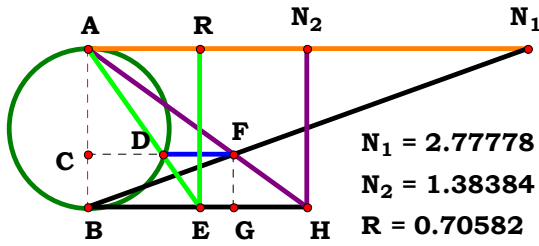
$$\frac{A \cdot N_u \cdot \sqrt{(A^2 - A + N_u^2)^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A^2 - A + N_u^2)}}$$

0, 2:

$$\frac{N_u \cdot \sqrt{(N_u^2 - B + 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 - B + 1)}}$$

1, 2:

$$\frac{A \cdot N_u \cdot \sqrt{(A^2 - B \cdot A + N_u^2)^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A^2 - B \cdot A + N_u^2)}}$$



Unit. AB := 1 Given. $N_1 := 2.77778$ $N_2 := 1.38384$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{\mathbf{A}}{\sqrt{\mathbf{A} \cdot \mathbf{B}}} = \mathbf{0.70582}$$

$$\text{Num} := \frac{\mathbf{A}}{\sqrt{(\mathbf{A})^2}}$$

$$\mathbf{Den} := \frac{\sqrt{\mathbf{A} \cdot \mathbf{B}}}{\sqrt{(\sqrt{\mathbf{A} \cdot \mathbf{B}})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A}}{\sqrt{\mathbf{A}^2}} = \mathbf{0}$$



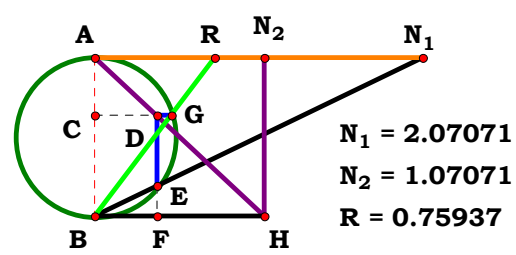
For 2 variables there are 4 subsets.

0, 0: 1

1, 0: $\frac{A}{\sqrt{A^2}}$

0, 2: 1

1, 2: $\frac{A}{\sqrt{A^2}}$



Unit. $AB := 1$ Given. $N_1 := 2.07071$ $N_2 := 1.07071$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

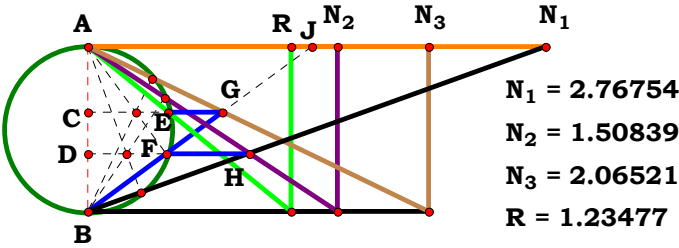
$$\frac{\sqrt{A \cdot B}}{\sqrt{(A^2 - B \cdot A + N_u^2)}} = 0.759364$$

$Num := 1$ $Den := 1$ $L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$L - 1 = 0$



Unit. $AB := 1$ Given. $N_1 := 2.76754$ $N_2 := 1.50839$ $N_3 := 2.06521$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{A \cdot N_u \cdot \sqrt{A+B}}{\sqrt{N_u \cdot (A+B)} \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot C}} = 1.234773 \quad \text{Num} := \frac{A \cdot N_u \cdot \sqrt{A+B}}{\sqrt{(A \cdot N_u \cdot \sqrt{A+B})^2}} \quad \text{Den} := \frac{\sqrt{N_u \cdot (A+B)} \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot C}}{\sqrt{\left[\sqrt{N_u \cdot (A+B)} \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot C} \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{A \cdot N_u \cdot \sqrt{A+B} \cdot \sqrt{A \cdot C \cdot N_u \cdot \sqrt{A \cdot B \cdot (A+B)}}}{\sqrt{N_u \cdot (A+B)} \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot C} \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A+B)}} = 0$$



For 3 variables there are 8 subsets.

$$0, 0, 0: \frac{N_u}{\sqrt{N_u^2}}$$

$$1, 0, 0: \frac{A^{\frac{1}{4}} \cdot N_u \cdot \sqrt{A+1} \cdot \sqrt{A^{\frac{3}{2}} \cdot N_u \cdot (A+1)}}{\sqrt{N_u \cdot (A+1)} \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A+1)}}$$

$$0, 2, 0: \frac{N_u \cdot \sqrt{B+1} \cdot \sqrt{\sqrt{B} \cdot N_u \cdot (B+1)}}{B^{\frac{1}{4}} \cdot \sqrt{N_u^2 \cdot (B+1)} \cdot \sqrt{N_u \cdot (B+1)}}$$

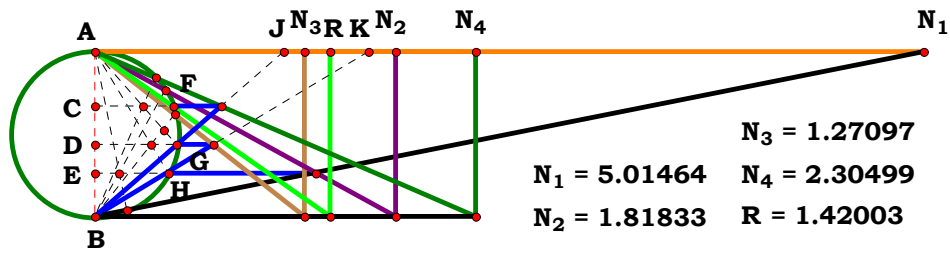
$$1, 2, 0: \frac{\sqrt{A \cdot N_u} \cdot \sqrt{A+B} \cdot \sqrt{A \cdot N_u \cdot \sqrt{A \cdot B} \cdot (A+B)}}{\sqrt{N_u \cdot (A+B)} \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A+B)}}$$

$$0, 0, 3: \frac{\sqrt{N_u} \cdot \sqrt{C \cdot N_u}}{\sqrt{C} \cdot \sqrt{N_u^2}}$$

$$1, 0, 3: \frac{A^{\frac{3}{4}} \cdot N_u \cdot \sqrt{A+1} \cdot \sqrt{A^{\frac{3}{2}} \cdot C \cdot N_u \cdot (A+1)}}{\sqrt{A \cdot C} \cdot \sqrt{N_u \cdot (A+1)} \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A+1)}}$$

$$0, 2, 3: \frac{N_u \cdot \sqrt{B+1} \cdot \sqrt{\sqrt{B} \cdot C \cdot N_u \cdot (B+1)}}{B^{\frac{1}{4}} \cdot \sqrt{C} \cdot \sqrt{N_u^2 \cdot (B+1)} \cdot \sqrt{N_u \cdot (B+1)}}$$

$$1, 2, 3: \frac{A \cdot N_u \cdot \sqrt{A+B} \cdot \sqrt{A \cdot C \cdot N_u \cdot \sqrt{A \cdot B} \cdot (A+B)}}{\sqrt{N_u \cdot (A+B)} \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot C} \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A+B)}}$$



Unit. $AB := 1$ Given. $N_1 := 5.01464$ $N_2 := 1.81833$
 $N_3 := 1.27097$ $N_4 := 2.30499$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{8}} \cdot (B \cdot C)^{\frac{1}{4}}}}{\sqrt{B \cdot C \cdot D}} = 1.42003$$
$$\text{Num} := \frac{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{8}} \cdot (B \cdot C)^{\frac{1}{4}}}}{\sqrt{\left[\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{8}} \cdot (B \cdot C)^{\frac{1}{4}}} \right]^2}}$$
$$\text{Den} := \frac{\sqrt{B \cdot C \cdot D}}{\sqrt{(\sqrt{B \cdot C \cdot D})^2}}$$
$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{8}} \cdot (B \cdot C)^{\frac{1}{4}}}}{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{B \cdot C}}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 1

1, 0, 0, 0:
$$\frac{A^{\frac{1}{8}} \cdot \sqrt{N_u^{\frac{3}{2}}}}{\sqrt{A^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}}}$$

0, 2, 0, 0:
$$\frac{B^{\frac{3}{8}} \cdot \sqrt{N_u^{\frac{3}{2}}}}{\sqrt{B^{\frac{3}{4}} \cdot N_u^{\frac{3}{2}}}}$$

1, 2, 0, 0:
$$\frac{B^{\frac{1}{4}} \cdot \sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{8}}}}{\sqrt{\sqrt{B} \cdot N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{4}}}}$$

0, 0, 3, 0:

$$\frac{C^{\frac{1}{4}} \cdot \sqrt{N_u^{\frac{3}{2}}}}{\sqrt{\sqrt{C} \cdot N_u^{\frac{3}{2}}}}$$

1, 0, 3, 0:

$$\frac{A^{\frac{1}{8}} \cdot C^{\frac{1}{4}} \cdot \sqrt{N_u^{\frac{3}{2}}}}{\sqrt{A^{\frac{1}{4}} \cdot \sqrt{C} \cdot N_u^{\frac{3}{2}}}}$$

0, 2, 3, 0:

$$\frac{B^{\frac{1}{8}} \cdot \sqrt{N_u^{\frac{3}{2}} \cdot (B \cdot C)^{\frac{1}{4}}}}{\sqrt{B^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}} \cdot \sqrt{B \cdot C}}}$$

1, 2, 3, 0:

$$\frac{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{8}} \cdot (B \cdot C)^{\frac{1}{4}}}}{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{B \cdot C}}}$$



0, 0, 0, 4: 1

$$\frac{1}{A^8} \cdot \sqrt{N_u^{\frac{3}{2}}}$$
$$\sqrt{\frac{1}{A^4} \cdot N_u^{\frac{3}{2}}}$$

0, 2, 0, 4:

$$\frac{B^{\frac{3}{8}} \cdot \sqrt{N_u^{\frac{3}{2}}}}{\sqrt{B^{\frac{3}{4}} \cdot N_u^{\frac{3}{2}}}}$$

1, 2, 0, 4:

$$\frac{B^{\frac{1}{4}} \cdot \sqrt{N_u^{\frac{3}{2}}} \cdot (A \cdot B)^{\frac{1}{8}}}{\sqrt{\sqrt{B \cdot N_u^{\frac{3}{2}}} \cdot (A \cdot B)^{\frac{1}{4}}}}$$

0, 0, 3, 4:

$$\frac{C^{\frac{1}{4}} \cdot \sqrt{N_u^{\frac{3}{2}}}}{\sqrt{\sqrt{C \cdot N_u^{\frac{3}{2}}}}}$$

1, 0, 3, 4:

$$\frac{A^{\frac{1}{8}} \cdot C^{\frac{1}{4}} \cdot \sqrt{N_u^{\frac{3}{2}}}}{\sqrt{A^{\frac{1}{4}} \cdot \sqrt{C \cdot N_u^{\frac{3}{2}}}}}$$

0, 2, 3, 4:

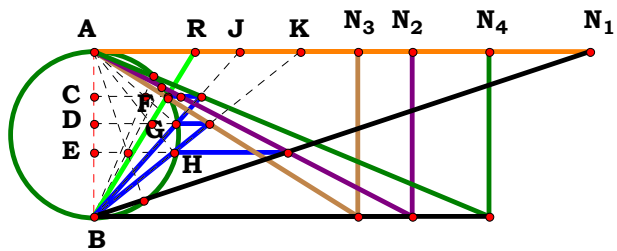
$$\frac{B^{\frac{1}{8}} \cdot \sqrt{N_u^{\frac{3}{2}}} \cdot (B \cdot C)^{\frac{1}{4}}}{\sqrt{B^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}} \cdot \sqrt{B \cdot C}}$$

1, 2, 3, 4:

$$\frac{\sqrt{N_u^{\frac{3}{2}}} \cdot (A \cdot B)^{\frac{1}{8}} \cdot (B \cdot C)^{\frac{1}{4}}}{\sqrt{N_u^{\frac{3}{2}}} \cdot (A \cdot B)^{\frac{1}{4}}} \cdot \sqrt{B \cdot C}$$



2SMT3R5



N₁ = 3.00000
N₂ = 1.92488
N₃ = 1.60029
N₄ = 2.39216
R = 0.60764

Unit. $AB := 1$ **Given.** $N_1 := 3$ $N_2 := 1.92488$ $N_3 := 1.60029$ $N_4 := 2.39216$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\left(\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D}^2\right)^{\frac{1}{4}}}{\frac{3}{N_{\mathbf{u}}^{\frac{4}} \cdot (\mathbf{A} \cdot \mathbf{B})^{\frac{1}{8}}}} = \mathbf{0.607638}$$

$$\text{Num} := \frac{(\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D}^2)^{\frac{1}{4}}}{\sqrt{\left[(\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D}^2)^{\frac{1}{4}}\right]^2}}$$

$$\text{Den} := \frac{\mathbf{N_u}^{\frac{3}{4}} \cdot (\mathbf{A} \cdot \mathbf{B})^{\frac{1}{8}}}{\sqrt{\left[\mathbf{N_u}^{\frac{3}{4}} \cdot (\mathbf{A} \cdot \mathbf{B})^{\frac{1}{8}} \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{\frac{3}{N_u} \cdot (A \cdot B)^{\frac{1}{4}}}}{\frac{3}{N_u^{\frac{1}{4}} \cdot (A \cdot B)^{\frac{1}{8}}}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{\sqrt{N_u^{\frac{3}{2}}}}{N_u^{\frac{3}{4}}}$	0, 0, 3, 0:	$\frac{\sqrt{N_u^{\frac{3}{2}}}}{N_u^{\frac{3}{4}}}$	0, 0, 0, 4:	$\frac{\sqrt{N_u^{\frac{3}{2}}}}{N_u^{\frac{3}{4}}}$	0, 0, 3, 4:	$\frac{\sqrt{N_u^{\frac{3}{2}}}}{N_u^{\frac{3}{4}}}$
1, 0, 0, 0:	$\frac{\sqrt{A^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}}}{A^{\frac{1}{8}} \cdot N_u^{\frac{3}{4}}}$	1, 0, 3, 0:	$\frac{\sqrt{A^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}}}{A^{\frac{1}{8}} \cdot N_u^{\frac{3}{4}}}$	1, 0, 0, 4:	$\frac{\sqrt{A^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}}}{A^{\frac{1}{8}} \cdot N_u^{\frac{3}{4}}}$	1, 0, 3, 4:	$\frac{\sqrt{A^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}}}{A^{\frac{1}{8}} \cdot N_u^{\frac{3}{4}}}$
0, 2, 0, 0:	$\frac{\sqrt{B^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}}}{B^{\frac{1}{8}} \cdot N_u^{\frac{3}{4}}}$	0, 2, 3, 0:	$\frac{\sqrt{B^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}}}{B^{\frac{1}{8}} \cdot N_u^{\frac{3}{4}}}$	0, 2, 0, 4:	$\frac{\sqrt{B^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}}}{B^{\frac{1}{8}} \cdot N_u^{\frac{3}{4}}}$	0, 2, 3, 4:	$\frac{\sqrt{B^{\frac{1}{4}} \cdot N_u^{\frac{3}{2}}}}{B^{\frac{1}{8}} \cdot N_u^{\frac{3}{4}}}$
1, 2, 0, 0:	$\frac{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{4}}}}{N_u^{\frac{3}{4}} \cdot (A \cdot B)^{\frac{1}{8}}}$	1, 2, 3, 0:	$\frac{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{4}}}}{N_u^{\frac{3}{4}} \cdot (A \cdot B)^{\frac{1}{8}}}$	1, 2, 0, 4:	$\frac{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{4}}}}{N_u^{\frac{3}{4}} \cdot (A \cdot B)^{\frac{1}{8}}}$	1, 2, 3, 4:	$\frac{\sqrt{N_u^{\frac{3}{2}} \cdot (A \cdot B)^{\frac{1}{4}}}}{N_u^{\frac{3}{4}} \cdot (A \cdot B)^{\frac{1}{8}}}$



2SMT3R6

Descriptions.

$$\frac{\sqrt{B \cdot C}}{\sqrt{N_u \cdot (A \cdot B)}^{\frac{1}{4}}} = 0.874615$$

$$\text{Num} := \frac{\sqrt{B \cdot C}}{\sqrt{(\sqrt{B \cdot C})^2}}$$

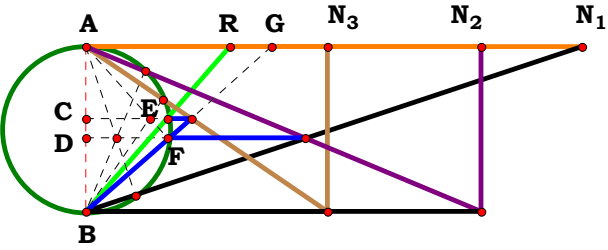
$$\text{Den} := \frac{\sqrt{N_u \cdot (A \cdot B)}^{\frac{1}{4}}}{\sqrt{\left[\sqrt{N_u \cdot (A \cdot B)}^{\frac{1}{4}}\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{N_u \cdot \sqrt{A \cdot B}}}{\sqrt{N_u \cdot (A \cdot B)}^{\frac{1}{4}}} = 0$$



N₁ = 3.00000
N₂ = 2.38980
N₃ = 1.46469
R = 0.87462

Unit. AB := 1 Given. N₁ := 3 N₂ := 2.38980 N₃ := 1.46469

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$



For 3 variables there are 8 subsets.

0, 0, 0: 1

1, 0, 0:
$$\frac{\sqrt{\sqrt{\mathbf{A} \cdot \mathbf{N_u}}}}{\frac{1}{\mathbf{A}^4 \cdot \sqrt{\mathbf{N_u}}}}$$

0, 2, 0:
$$\frac{\sqrt{\sqrt{\mathbf{B} \cdot \mathbf{N_u}}}}{\frac{1}{\mathbf{B}^4 \cdot \sqrt{\mathbf{N_u}}}}$$

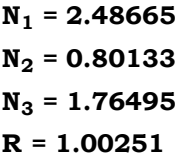
1, 2, 0:
$$\frac{\sqrt{\mathbf{N_u} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}}{\sqrt{\mathbf{N_u} \cdot (\mathbf{A} \cdot \mathbf{B})^{\frac{1}{4}}}}$$

0, 0, 3: 1

1, 0, 3:
$$\frac{\sqrt{\sqrt{\mathbf{A} \cdot \mathbf{N_u}}}}{\frac{1}{\mathbf{A}^4 \cdot \sqrt{\mathbf{N_u}}}}$$

0, 2, 3:
$$\frac{\sqrt{\sqrt{\mathbf{B} \cdot \mathbf{N_u}}}}{\frac{1}{\mathbf{B}^4 \cdot \sqrt{\mathbf{N_u}}}}$$

1, 2, 3:
$$\frac{\sqrt{\mathbf{N_u} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}}{\sqrt{\mathbf{N_u} \cdot (\mathbf{A} \cdot \mathbf{B})^{\frac{1}{4}}}}$$


$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$
$$\frac{\mathbf{N_u} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N_u}^2)}{\mathbf{C} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)} = 1.002513$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{C} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\sqrt{[\mathbf{C} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)}}{\mathbf{C} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0:
$$\frac{N_u^3 \cdot \sqrt{(N_u^2 + 1)^2}}{\sqrt{N_u^6 \cdot (N_u^2 + 1)}}$$

0, 0, 3:
$$\frac{N_u^3 \cdot \sqrt{C^2 \cdot (N_u^2 + 1)^2}}{C \cdot \sqrt{N_u^6 \cdot (N_u^2 + 1)}}$$

1, 0, 0:
$$\frac{N_u \cdot \sqrt{(A^2 + N_u^2)^2} \cdot (A^2 - A + N_u^2)}{(A^2 + N_u^2) \cdot \sqrt{N_u^2 \cdot (A^2 - A + N_u^2)^2}}$$

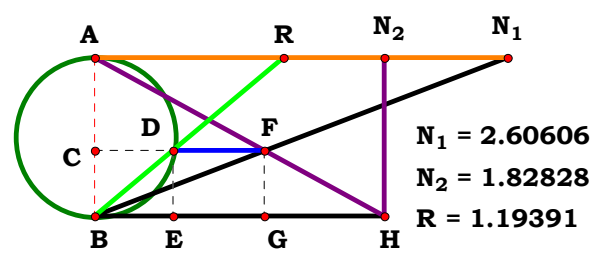
1, 0, 3:
$$\frac{N_u \cdot \sqrt{C^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 - A + N_u^2)}{C \cdot (A^2 + N_u^2) \cdot \sqrt{N_u^2 \cdot (A^2 - A + N_u^2)^2}}$$

0, 2, 0:
$$\frac{N_u \cdot \sqrt{(N_u^2 + 1)^2} \cdot (N_u^2 - B + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - B + 1)^2} \cdot (N_u^2 + 1)}$$

0, 2, 3:
$$\frac{N_u \cdot \sqrt{C^2 \cdot (N_u^2 + 1)^2} \cdot (N_u^2 - B + 1)}{C \cdot \sqrt{N_u^2 \cdot (N_u^2 - B + 1)^2} \cdot (N_u^2 + 1)}$$

1, 2, 0:
$$\frac{N_u \cdot \sqrt{(A^2 + N_u^2)^2} \cdot (A^2 - B \cdot A + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - B \cdot A + N_u^2)^2} \cdot (A^2 + N_u^2)}$$

1, 2, 3:
$$\frac{N_u \cdot \sqrt{C^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 - B \cdot A + N_u^2)}{C \cdot \sqrt{N_u^2 \cdot (A^2 - B \cdot A + N_u^2)^2} \cdot (A^2 + N_u^2)}$$



Unit. $AB := 1$ Given. $N_1 := 2.60606$ $N_2 := 1.82828$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$\frac{B}{\sqrt{A \cdot B}} = 1.193908$ $Num := \frac{B}{\sqrt{(B)^2}}$ $Den := \frac{\sqrt{A \cdot B}}{\sqrt{(\sqrt{A \cdot B})^2}}$ $L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{B}{\sqrt{B^2}} = 0$



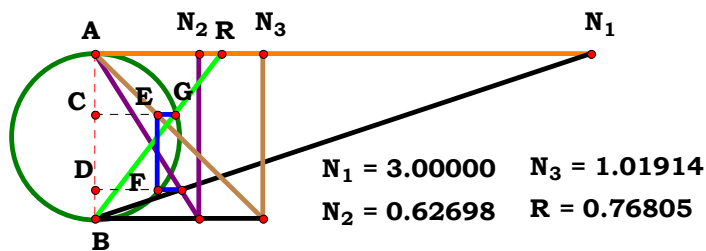
For 2 variables there are 4 subsets.

0, 0: 1

1, 0: 1

0, 2: $\frac{B}{\sqrt{B^2}}$

1, 2: $\frac{B}{\sqrt{B^2}}$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := .62698$ $N_3 := 1.01914$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}]}}{[\sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}}] \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}} = \mathbf{0.768049}$$

$$\mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}]}}{\sqrt{[\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}]}}^2}}$$

$$\mathbf{Den} := \frac{[\sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}}] \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}}{\sqrt{[\sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}}] \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}}^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}] \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot [\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}]^2 \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}}{(\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}) \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{\mathbf{A}^3 \cdot \mathbf{B}^3 \cdot \mathbf{C}^2} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}]}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{\sqrt{(2 \cdot N_u - 1)^2}}{2 \cdot N_u - 1}$$

1, 0, 0:

$$\frac{A \cdot \sqrt{A^{\frac{3}{2}} \cdot [A - \sqrt{A} \cdot N_u \cdot (A + 1)]^2} \cdot \sqrt{-A \cdot [\sqrt{A} - N_u \cdot (A + 1)]}}{\sqrt{A^{\frac{3}{2}} \cdot \sqrt{-A^3 \cdot [\sqrt{A} - N_u \cdot (A + 1)]}} \cdot \left(\sqrt{A \cdot N_u} - A + A^{\frac{3}{2}} \cdot N_u \right)}$$

0, 2, 0:

$$\frac{B \cdot \sqrt{B^{\frac{3}{2}} \cdot [B - \sqrt{B} \cdot N_u \cdot (B + 1)]^2} \cdot \sqrt{-B \cdot [\sqrt{B} - N_u \cdot (B + 1)]}}{\sqrt{B^{\frac{3}{2}} \cdot \sqrt{-B^3 \cdot [\sqrt{B} - N_u \cdot (B + 1)]}} \cdot \left(\sqrt{B \cdot N_u} - B + B^{\frac{3}{2}} \cdot N_u \right)}$$

1, 2, 0:

$$\frac{A \cdot B \cdot \sqrt{A \cdot B \cdot [N_u \cdot (A + B) - \sqrt{A \cdot B}]} \cdot \sqrt{A \cdot B \cdot [A \cdot B - N_u \cdot \sqrt{A \cdot B} \cdot (A + B)]^2} \cdot \sqrt{A \cdot B}}{\sqrt{A^3 \cdot B^3 \cdot [N_u \cdot (A + B) - \sqrt{A \cdot B}]} \cdot (A \cdot N_u \cdot \sqrt{A \cdot B} - A \cdot B + B \cdot N_u \cdot \sqrt{A \cdot B}) \cdot \sqrt{A \cdot B \cdot \sqrt{A \cdot B}}}$$

0, 0, 3:

$$\frac{\sqrt{C} \cdot \sqrt{C \cdot (C - 2 \cdot N_u)^2}}{\sqrt{-C^2 \cdot (C - 2 \cdot N_u)} \cdot \sqrt{2 \cdot N_u - C}}$$

1, 0, 3:

$$\frac{A \cdot C \cdot \sqrt{-A \cdot [\sqrt{A \cdot C} - N_u \cdot (A + 1)]} \cdot \sqrt{A^{\frac{3}{2}} \cdot C \cdot [A \cdot C - \sqrt{A} \cdot N_u \cdot (A + 1)]^2}}{\sqrt{A^{\frac{3}{2}} \cdot C \cdot \sqrt{-A^3 \cdot C^2 \cdot [\sqrt{A \cdot C} - N_u \cdot (A + 1)]}} \cdot \left(\sqrt{A \cdot N_u} - A \cdot C + A^{\frac{3}{2}} \cdot N_u \right)}$$

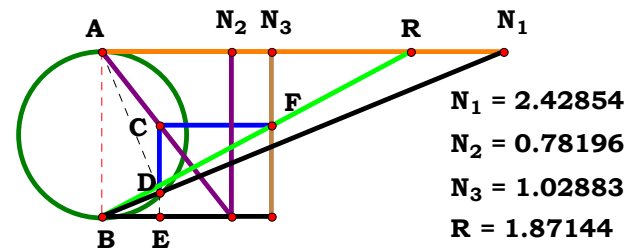
0, 2, 3:

$$\frac{B \cdot C \cdot \sqrt{-B \cdot [\sqrt{B \cdot C} - N_u \cdot (B + 1)]} \cdot \sqrt{B^{\frac{3}{2}} \cdot C \cdot [B \cdot C - \sqrt{B} \cdot N_u \cdot (B + 1)]^2}}{\sqrt{B^{\frac{3}{2}} \cdot C \cdot \sqrt{-B^3 \cdot C^2 \cdot [\sqrt{B \cdot C} - N_u \cdot (B + 1)]}} \cdot \left(\sqrt{B \cdot N_u} - B \cdot C + B^{\frac{3}{2}} \cdot N_u \right)}$$

1, 2, 3:

$$\frac{A \cdot B \cdot C \cdot \sqrt{A \cdot B \cdot [N_u \cdot (A + B) - C \cdot \sqrt{A \cdot B}]} \cdot \sqrt{A \cdot B \cdot C \cdot [N_u \cdot \sqrt{A \cdot B} \cdot (A + B) - A \cdot B \cdot C]^2} \cdot \sqrt{A \cdot B}}{(A \cdot N_u \cdot \sqrt{A \cdot B} - A \cdot B \cdot C + B \cdot N_u \cdot \sqrt{A \cdot B}) \cdot \sqrt{A \cdot B \cdot C \cdot \sqrt{A \cdot B}} \cdot \sqrt{A^3 \cdot B^3 \cdot C^2 \cdot [N_u \cdot (A + B) - C \cdot \sqrt{A \cdot B}]}}$$

2SMT3R10



Unit. AB := 1 Given. $N_1 := 2.42854$ $N_2 := .78196$ $N_3 := 1.02883$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)}{\mathbf{C} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N_u}^2)} = 1.871437$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)}{\sqrt{[\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{C} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2)}{\sqrt{[\mathbf{C} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2)]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)^2} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{C} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)} = \mathbf{0}$$



For 3 variables there are 8 subsets.

$$\text{0, 0, 0: } \frac{\sqrt{N_u^4 \cdot (N_u^2 + 1)}}{N_u \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

$$\text{1, 0, 0: } \frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 - A + N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - A + N_u^2)}}$$

$$\text{0, 2, 0: } \frac{N_u \cdot (N_u^2 + 1) \cdot \sqrt{(N_u^2 - B + 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - B + 1)}}$$

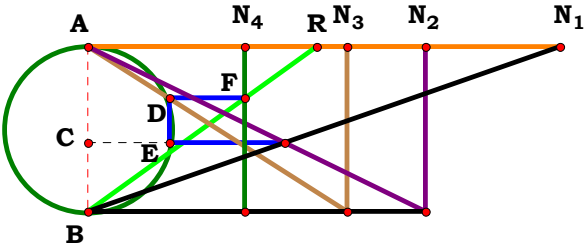
$$\text{1, 2, 0: } \frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 - B \cdot A + N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - B \cdot A + N_u^2)}}$$

$$\text{0, 0, 3: } \frac{\sqrt{C^2 \cdot N_u^4 \cdot (N_u^2 + 1)}}{C \cdot N_u \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

$$\text{1, 0, 3: } \frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{C^2 \cdot (A^2 - A + N_u^2)^2}}{C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - A + N_u^2)}}$$

$$\text{0, 2, 3: } \frac{N_u \cdot \sqrt{C^2 \cdot (N_u^2 - B + 1)^2 \cdot (N_u^2 + 1)}}{C \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - B + 1)}}$$

$$\text{1, 2, 3: } \frac{N_u \cdot \sqrt{C^2 \cdot (A^2 - B \cdot A + N_u^2)^2 \cdot (A^2 + N_u^2)}}{C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - B \cdot A + N_u^2)}}$$



N₁ = 2.85471
N₂ = 2.04111
N₃ = 1.57123
N₄ = 0.94898
R = 1.38294

Unit. AB := 1 Given. N₁ := 2.85471 N₂ := 2.04111 N₃ := 1.57123
N₄ := .94898

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^2 \cdot (A + B) \cdot \sqrt{A \cdot B}}{D \cdot \left[\sqrt{A \cdot B} \cdot N_u \cdot (A + B) - A \cdot B \cdot C \right]} = 1.382944$$

$$\text{Num} := \frac{N_u^2 \cdot (A + B) \cdot \sqrt{A \cdot B}}{\sqrt{\left[N_u^2 \cdot (A + B) \cdot \sqrt{A \cdot B} \right]^2}}$$

$$\text{Den} := \frac{D \cdot \left[\sqrt{A \cdot B} \cdot N_u \cdot (A + B) - A \cdot B \cdot C \right]}{\sqrt{\left[D \cdot \left[\sqrt{A \cdot B} \cdot N_u \cdot (A + B) - A \cdot B \cdot C \right] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^2 \cdot \sqrt{A \cdot B} \cdot (A + B) \cdot \sqrt{D^2 \cdot \left[N_u \cdot \sqrt{A \cdot B} \cdot (A + B) - A \cdot B \cdot C \right]^2}}{D \cdot \left(A \cdot N_u \cdot \sqrt{A \cdot B} - A \cdot B \cdot C + B \cdot N_u \cdot \sqrt{A \cdot B} \right) \cdot \sqrt{A \cdot B \cdot N_u^4 \cdot (A + B)^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{N_u^2 \cdot \sqrt{(2 \cdot N_u - 1)^2}}{\sqrt{N_u^4 \cdot (2 \cdot N_u - 1)}}$$

1, 0, 0, 0:

$$\frac{\sqrt{A \cdot N_u^2 \cdot (A + 1)} \cdot \sqrt{[A - \sqrt{A \cdot N_u} \cdot (A + 1)]^2}}{\sqrt{A \cdot N_u^4 \cdot (A + 1)^2} \cdot \left(\sqrt{A \cdot N_u} - A + A^{\frac{3}{2}} \cdot N_u\right)}$$

0, 2, 0, 0:

$$\frac{\sqrt{B \cdot N_u^2 \cdot (B + 1)} \cdot \sqrt{[B - \sqrt{B \cdot N_u} \cdot (B + 1)]^2}}{\sqrt{B \cdot N_u^4 \cdot (B + 1)^2} \cdot \left(\sqrt{B \cdot N_u} - B + B^{\frac{3}{2}} \cdot N_u\right)}$$

1, 2, 0, 0:

$$\frac{N_u^2 \cdot \sqrt{A \cdot B} \cdot (A + B) \cdot \sqrt{[A \cdot B - N_u \cdot \sqrt{A \cdot B} \cdot (A + B)]^2}}{\left(A \cdot N_u \cdot \sqrt{A \cdot B} - A \cdot B + B \cdot N_u \cdot \sqrt{A \cdot B}\right) \cdot \sqrt{A \cdot B \cdot N_u^4 \cdot (A + B)^2}}$$

0, 0, 3, 0:

$$-\frac{N_u^2 \cdot \sqrt{(C - 2 \cdot N_u)^2}}{\sqrt{N_u^4 \cdot (C - 2 \cdot N_u)}}$$

1, 0, 3, 0:

$$\frac{\sqrt{A \cdot N_u^2 \cdot (A + 1)} \cdot \sqrt{[A \cdot C - \sqrt{A \cdot N_u} \cdot (A + 1)]^2}}{\sqrt{A \cdot N_u^4 \cdot (A + 1)^2} \cdot \left(\sqrt{A \cdot N_u} - A \cdot C + A^{\frac{3}{2}} \cdot N_u\right)}$$

0, 2, 3, 0:

$$\frac{\sqrt{B \cdot N_u^2 \cdot (B + 1)} \cdot \sqrt{[B \cdot C - \sqrt{B \cdot N_u} \cdot (B + 1)]^2}}{\sqrt{B \cdot N_u^4 \cdot (B + 1)^2} \cdot \left(\sqrt{B \cdot N_u} - B \cdot C + B^{\frac{3}{2}} \cdot N_u\right)}$$

1, 2, 3, 0:

$$\frac{N_u^2 \cdot \sqrt{A \cdot B} \cdot (A + B) \cdot \sqrt{[N_u \cdot \sqrt{A \cdot B} \cdot (A + B) - A \cdot B \cdot C]^2}}{\left(A \cdot N_u \cdot \sqrt{A \cdot B} - A \cdot B \cdot C + B \cdot N_u \cdot \sqrt{A \cdot B}\right) \cdot \sqrt{A \cdot B \cdot N_u^4 \cdot (A + B)^2}}$$



0, 0, 0, 4:
$$\frac{N_u^2 \cdot \sqrt{D^2 \cdot (2 \cdot N_u - 1)^2}}{D \cdot \sqrt{N_u^4 \cdot (2 \cdot N_u - 1)}}$$

1, 0, 0, 4:
$$\frac{\sqrt{A} \cdot N_u^2 \cdot \sqrt{D^2 \cdot [A - \sqrt{A} \cdot N_u \cdot (A + 1)]^2} \cdot (A + 1)}{D \cdot \sqrt{A \cdot N_u^4 \cdot (A + 1)^2} \cdot \left(\sqrt{A} \cdot N_u - A + A^{\frac{3}{2}} \cdot N_u\right)}$$

0, 2, 0, 4:
$$\frac{\sqrt{B} \cdot N_u^2 \cdot \sqrt{D^2 \cdot [B - \sqrt{B} \cdot N_u \cdot (B + 1)]^2} \cdot (B + 1)}{D \cdot \sqrt{B \cdot N_u^4 \cdot (B + 1)^2} \cdot \left(\sqrt{B} \cdot N_u - B + B^{\frac{3}{2}} \cdot N_u\right)}$$

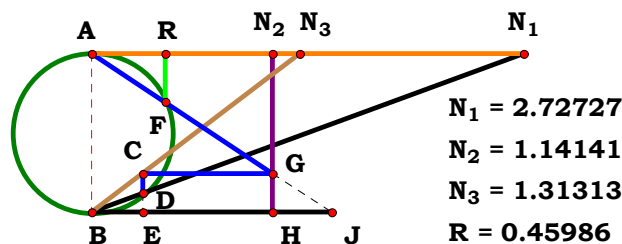
1, 2, 0, 4:
$$\frac{N_u^2 \cdot \sqrt{A \cdot B} \cdot (A + B) \cdot \sqrt{D^2 \cdot [A \cdot B - N_u \cdot \sqrt{A \cdot B} \cdot (A + B)]^2}}{D \cdot \left(A \cdot N_u \cdot \sqrt{A \cdot B} - A \cdot B + B \cdot N_u \cdot \sqrt{A \cdot B}\right) \cdot \sqrt{A \cdot B \cdot N_u^4 \cdot (A + B)^2}}$$

0, 0, 3, 4:
$$\frac{N_u^2 \cdot \sqrt{D^2 \cdot (C - 2 \cdot N_u)^2}}{D \cdot \sqrt{N_u^4 \cdot (C - 2 \cdot N_u)}}$$

1, 0, 3, 4:
$$\frac{\sqrt{A} \cdot N_u^2 \cdot (A + 1) \cdot \sqrt{D^2 \cdot [A \cdot C - \sqrt{A} \cdot N_u \cdot (A + 1)]^2}}{D \cdot \sqrt{A \cdot N_u^4 \cdot (A + 1)^2} \cdot \left(\sqrt{A} \cdot N_u - A \cdot C + A^{\frac{3}{2}} \cdot N_u\right)}$$

0, 2, 3, 4:
$$\frac{\sqrt{B} \cdot N_u^2 \cdot (B + 1) \cdot \sqrt{D^2 \cdot [B \cdot C - \sqrt{B} \cdot N_u \cdot (B + 1)]^2}}{D \cdot \sqrt{B \cdot N_u^4 \cdot (B + 1)^2} \cdot \left(\sqrt{B} \cdot N_u - B \cdot C + B^{\frac{3}{2}} \cdot N_u\right)}$$

1, 2, 3, 4:
$$\frac{N_u^2 \cdot \sqrt{A \cdot B} \cdot (A + B) \cdot \sqrt{D^2 \cdot [N_u \cdot \sqrt{A \cdot B} \cdot (A + B) - A \cdot B \cdot C]^2}}{D \cdot \left(A \cdot N_u \cdot \sqrt{A \cdot B} - A \cdot B \cdot C + B \cdot N_u \cdot \sqrt{A \cdot B}\right) \cdot \sqrt{A \cdot B \cdot N_u^4 \cdot (A + B)^2}}$$



Unit. AB := 1 Given. $N_1 := 2.72727$ $N_2 := 1.14141$ $N_3 := 1.31313$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{N}_{\mathbf{u}}^6 + \mathbf{N}_{\mathbf{u}}^4 \cdot (2 \cdot \mathbf{A}^2 + \mathbf{B}^2) + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^3 + 2 \cdot \mathbf{A} \cdot \mathbf{B}^2 - 2 \cdot \mathbf{C} \cdot \mathbf{B}^2) + \mathbf{A}^2 \cdot \mathbf{B}^2 \cdot (\mathbf{A} - \mathbf{C})^2} = 0.459865$$

$$\text{Num} := \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)]^2}} \quad \text{Den} := \frac{\mathbf{N}_{\mathbf{u}}^6 + \mathbf{N}_{\mathbf{u}}^4 \cdot (2 \cdot \mathbf{A}^2 + \mathbf{B}^2) + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^3 + 2 \cdot \mathbf{A} \cdot \mathbf{B}^2 - 2 \cdot \mathbf{C} \cdot \mathbf{B}^2) + \mathbf{A}^2 \cdot \mathbf{B}^2 \cdot (\mathbf{A} - \mathbf{C})^2}{\sqrt{[\mathbf{N}_{\mathbf{u}}^6 + \mathbf{N}_{\mathbf{u}}^4 \cdot (2 \cdot \mathbf{A}^2 + \mathbf{B}^2) + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^3 + 2 \cdot \mathbf{A} \cdot \mathbf{B}^2 - 2 \cdot \mathbf{C} \cdot \mathbf{B}^2) + \mathbf{A}^2 \cdot \mathbf{B}^2 \cdot (\mathbf{A} - \mathbf{C})^2]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

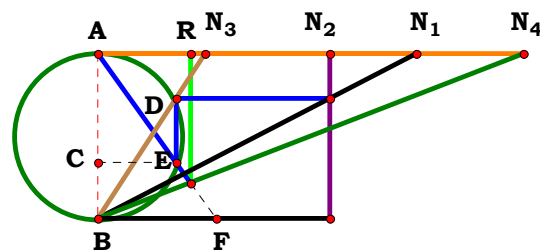
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\left[\mathbf{N}_{\mathbf{u}}^4 \cdot (2 \cdot \mathbf{A}^2 + \mathbf{B}^2) + \mathbf{N}_{\mathbf{u}}^6 + \mathbf{A}^2 \cdot \mathbf{B}^2 \cdot (\mathbf{A} - \mathbf{C})^2 + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^3 + 2 \cdot \mathbf{A} \cdot \mathbf{B}^2 - 2 \cdot \mathbf{C} \cdot \mathbf{B}^2) \right]^2} \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A}^4 \cdot \mathbf{B}^2 + \mathbf{A}^4 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A}^3 \cdot \mathbf{B}^2 \cdot \mathbf{C} + \mathbf{A}^2 \cdot \mathbf{B}^2 \cdot \mathbf{C}^2 + 2 \cdot \mathbf{A}^2 \cdot \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + 2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 - 2 \cdot \mathbf{A} \cdot \mathbf{B}^2 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 + \mathbf{N}_{\mathbf{u}}^6)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u^3 \cdot \sqrt{(N_u^6 + 3 \cdot N_u^4 + N_u^2)^2} \cdot (N_u^2 + 1)}{\sqrt{N_u^6 \cdot (N_u^2 + 1)^2} \cdot (N_u^6 + 3 \cdot N_u^4 + N_u^2)}$	1, 0, 0:	$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{\left[N_u^6 + N_u^4 \cdot (2 \cdot A^2 + 1) + A^2 \cdot (A - 1)^2 + A \cdot N_u^2 \cdot (A^3 + 2 \cdot A - 2) \right]^2} \cdot (A^2 - A + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 - A + N_u^2)^2 \cdot (A^4 \cdot N_u^2 + A^4 - 2 \cdot A^3 + 2 \cdot A^2 \cdot N_u^4 + 2 \cdot A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot N_u^2 + N_u^6 + N_u^4)}$
0, 2, 0:	$\frac{B \cdot N_u^3 \cdot \sqrt{\left[N_u^6 + (B^2 + 2) \cdot N_u^4 + N_u^2 \right]^2} \cdot (N_u^2 + 1)}{\sqrt{B^2 \cdot N_u^6 \cdot (N_u^2 + 1)^2} \cdot (B^2 \cdot N_u^4 + N_u^6 + 2 \cdot N_u^4 + N_u^2)}$		
1, 2, 0:	$\frac{B \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{\left[N_u^4 \cdot (2 \cdot A^2 + B^2) + N_u^6 + A^2 \cdot B^2 \cdot (A - 1)^2 + A \cdot N_u^2 \cdot (A^3 + 2 \cdot A \cdot B^2 - 2 \cdot B^2) \right]^2} \cdot (A^2 - A + N_u^2)}{\sqrt{B^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 - A + N_u^2)^2 \cdot (A^4 \cdot B^2 + A^4 \cdot N_u^2 - 2 \cdot A^3 \cdot B^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^4 - 2 \cdot A \cdot B^2 \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6)}$		
0, 0, 3:	$\frac{N_u \cdot (N_u^2 + 1) \cdot \sqrt{\left[3 \cdot N_u^4 + N_u^6 + (C - 1)^2 - N_u^2 \cdot (2 \cdot C - 3) \right]^2} \cdot (N_u^2 - C + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2} \cdot (N_u^2 - C + 1)^2 \cdot (C^2 - 2 \cdot C \cdot N_u^2 - 2 \cdot C + N_u^6 + 3 \cdot N_u^4 + 3 \cdot N_u^2 + 1)}$		
1, 0, 3:	$\frac{N_u \cdot \sqrt{\left[N_u^6 + N_u^4 \cdot (2 \cdot A^2 + 1) + A^2 \cdot (A - C)^2 + A \cdot N_u^2 \cdot (A^3 + 2 \cdot A - 2 \cdot C) \right]^2} \cdot (A^2 + N_u^2) \cdot (A^2 - C \cdot A + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 - C \cdot A + N_u^2)^2 \cdot (A^4 \cdot N_u^2 + A^4 - 2 \cdot A^3 \cdot C + A^2 \cdot C^2 + 2 \cdot A^2 \cdot N_u^4 + 2 \cdot A^2 \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u^2 + N_u^6 + N_u^4)}$		
0, 2, 3:	$\frac{B \cdot N_u \cdot \sqrt{\left[N_u^6 + N_u^2 \cdot (2 \cdot B^2 - 2 \cdot B^2 \cdot C + 1) + B^2 \cdot (C - 1)^2 + N_u^4 \cdot (B^2 + 2) \right]^2} \cdot (N_u^2 + 1) \cdot (N_u^2 - C + 1)}{\sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2} \cdot (N_u^2 - C + 1)^2 \cdot (B^2 \cdot C^2 - 2 \cdot B^2 \cdot C \cdot N_u^2 - 2 \cdot B^2 \cdot C + B^2 \cdot N_u^4 + 2 \cdot B^2 \cdot N_u^2 + B^2 + N_u^6 + 2 \cdot N_u^4 + N_u^2)}$		
1, 2, 3:	$\frac{B \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{\left[N_u^4 \cdot (2 \cdot A^2 + B^2) + N_u^6 + A^2 \cdot B^2 \cdot (A - C)^2 + A \cdot N_u^2 \cdot (A^3 + 2 \cdot A \cdot B^2 - 2 \cdot C \cdot B^2) \right]^2} \cdot (A^2 - C \cdot A + N_u^2)}{\sqrt{B^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 - C \cdot A + N_u^2)^2 \cdot (A^4 \cdot B^2 + A^4 \cdot N_u^2 - 2 \cdot A^3 \cdot B^2 \cdot C + A^2 \cdot B^2 \cdot C^2 + 2 \cdot A^2 \cdot B^2 \cdot N_u^2 + 2 \cdot A^2 \cdot N_u^4 - 2 \cdot A \cdot B^2 \cdot C \cdot N_u^2 + B^2 \cdot N_u^4 + N_u^6)}$		



N₁ = 1.92488
N₂ = 1.40185
N₃ = 0.65108
N₄ = 2.57619
R = 0.56269

Unit. AB := 1 Given. $N_1 := 1.92488$ $N_2 := 1.40185$ $N_3 := .65108$
$$N_4 := 2.57619$$
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{2 \cdot A \cdot N_u^2}{\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + B \cdot C)} = 0.562683$$

$$\mathbf{Num} := \frac{2 \cdot \mathbf{A} \cdot \mathbf{N}_u^2}{\sqrt{(2 \cdot \mathbf{A} \cdot \mathbf{N}_u^2)^2}}$$

$$\text{Den} := \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 - 4 \cdot \mathbf{A}^2 \cdot \mathbf{N_u}^4 + \mathbf{N_u} \cdot (2 \cdot \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}}{\sqrt{\left[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 - 4 \cdot \mathbf{A}^2 \cdot \mathbf{N_u}^4 + \mathbf{N_u} \cdot (2 \cdot \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})} \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + B \cdot C) \right]^2}}{\sqrt{A^2 \cdot N_u^4 \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + 2 \cdot A \cdot D \cdot N_u + B \cdot C \cdot N_u \right)}} = 0$$

For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{N_u^2 \cdot \sqrt{\left(3 \cdot N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}\right)^2}}{\sqrt{N_u^4} \cdot \left(3 \cdot N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}\right)}$$

1, 0, 0, 0:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A + 1)\right]^2}}{\sqrt{A^2 \cdot N_u^4} \cdot \left(N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4} + 2 \cdot A \cdot N_u\right)}$$

0, 2, 0, 0:

$$\frac{N_u^2 \cdot \sqrt{\left[\sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4} + N_u \cdot (B + 2)\right]^2}}{\sqrt{N_u^4} \cdot \left(2 \cdot N_u + B \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)}$$

1, 2, 0, 0:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A + B)\right]^2}}{\sqrt{A^2 \cdot N_u^4} \cdot \left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + 2 \cdot A \cdot N_u + B \cdot N_u\right)}$$

0, 0, 3, 0:

$$\frac{N_u^2 \cdot \sqrt{\left[\sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4} + N_u \cdot (C + 2)\right]^2}}{\sqrt{N_u^4} \cdot \left(2 \cdot N_u + C \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)}$$

1, 0, 3, 0:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A + C)\right]^2}}{\sqrt{A^2 \cdot N_u^4} \cdot \left(\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + 2 \cdot A \cdot N_u + C \cdot N_u\right)}$$

0, 2, 3, 0:

$$\frac{N_u^2 \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + N_u \cdot (B \cdot C + 2)\right]^2}}{\sqrt{N_u^4} \cdot \left(2 \cdot N_u + \sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + B \cdot C \cdot N_u\right)}$$

1, 2, 3, 0:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A + B \cdot C)\right]^2}}{\sqrt{A^2 \cdot N_u^4} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + 2 \cdot A \cdot N_u + B \cdot C \cdot N_u\right)}$$

0, 0, 0, 4:

$$\frac{N_u^2 \cdot \sqrt{\left[N_u \cdot (2 \cdot D + 1) + \sqrt{N_u^2 - 4 \cdot N_u^4}\right]^2}}{\sqrt{N_u^4} \cdot \left(N_u + \sqrt{N_u^2 - 4 \cdot N_u^4} + 2 \cdot D \cdot N_u\right)}$$

1, 0, 0, 4:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + 1)\right]^2}}{\sqrt{A^2 \cdot N_u^4} \cdot \left(N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4} + 2 \cdot A \cdot D \cdot N_u\right)}$$

0, 2, 0, 4:

$$\frac{N_u^2 \cdot \sqrt{\left[\sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4} + N_u \cdot (B + 2 \cdot D)\right]^2}}{\sqrt{N_u^4} \cdot \left(B \cdot N_u + 2 \cdot D \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)}$$

1, 2, 0, 4:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (B + 2 \cdot A \cdot D)\right]^2}}{\sqrt{A^2 \cdot N_u^4} \cdot \left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot N_u + 2 \cdot A \cdot D \cdot N_u\right)}$$

0, 0, 3, 4:

$$\frac{N_u^2 \cdot \sqrt{\left[\sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4} + N_u \cdot (C + 2 \cdot D)\right]^2}}{\sqrt{N_u^4} \cdot \left(C \cdot N_u + 2 \cdot D \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)}$$

1, 0, 3, 4:

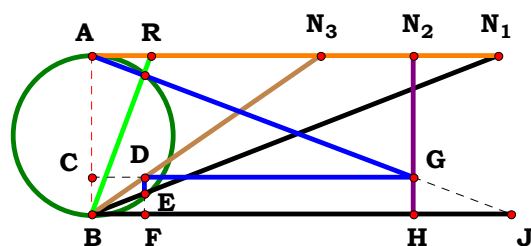
$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (C + 2 \cdot A \cdot D)\right]^2}}{\sqrt{A^2 \cdot N_u^4} \cdot \left(\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + C \cdot N_u + 2 \cdot A \cdot D \cdot N_u\right)}$$

0, 2, 3, 4:

$$\frac{N_u^2 \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + N_u \cdot (2 \cdot D + B \cdot C)\right]^2}}{\sqrt{N_u^4} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + 2 \cdot D \cdot N_u + B \cdot C \cdot N_u\right)}$$

1, 2, 3, 4:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + B \cdot C)\right]^2}}{\sqrt{A^2 \cdot N_u^4} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + 2 \cdot A \cdot D \cdot N_u + B \cdot C \cdot N_u\right)}$$



N₁ = 2.56566
N₂ = 2.03030
N₃ = 1.44444
R = 0.37716

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$
$$\frac{\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_u^2)}{\mathbf{A}^2 \cdot \mathbf{N}_u + \mathbf{N}_u^3} = \mathbf{0.377161}$$

$$\mathbf{Num} := \frac{\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_u^2)}{\sqrt{[\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_u^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^3}{\sqrt{(\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^3)^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \sqrt{(\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^3)^2} \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\mathbf{B}^2 \cdot (\mathbf{A}^2 - \mathbf{C} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u \cdot \sqrt{\left(N_u^3 + N_u\right)^2}}{\sqrt{N_u^4 \cdot \left(N_u^2 + 1\right)}}$$

1, 0, 0:

$$\frac{\sqrt{\left(A^2 \cdot N_u + N_u^3\right)^2} \cdot \left(A^2 - A + N_u^2\right)}{N_u \cdot \left(A^2 + N_u^2\right) \cdot \sqrt{\left(A^2 - A + N_u^2\right)^2}}$$

0, 2, 0:

$$\frac{B \cdot N_u \cdot \sqrt{\left(N_u^3 + N_u\right)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot \left(N_u^2 + 1\right)}}$$

1, 2, 0:

$$\frac{B \cdot \sqrt{\left(A^2 \cdot N_u + N_u^3\right)^2} \cdot \left(A^2 - A + N_u^2\right)}{N_u \cdot \left(A^2 + N_u^2\right) \cdot \sqrt{B^2 \cdot \left(A^2 - A + N_u^2\right)^2}}$$

0, 0, 3:

$$\frac{\sqrt{\left(N_u^3 + N_u\right)^2} \cdot \left(N_u^2 - C + 1\right)}{N_u \cdot \left(N_u^2 + 1\right) \cdot \sqrt{\left(N_u^2 - C + 1\right)^2}}$$

1, 0, 3:

$$\frac{\sqrt{\left(A^2 \cdot N_u + N_u^3\right)^2} \cdot \left(A^2 - C \cdot A + N_u^2\right)}{N_u \cdot \left(A^2 + N_u^2\right) \cdot \sqrt{\left(A^2 - C \cdot A + N_u^2\right)^2}}$$

0, 2, 3:

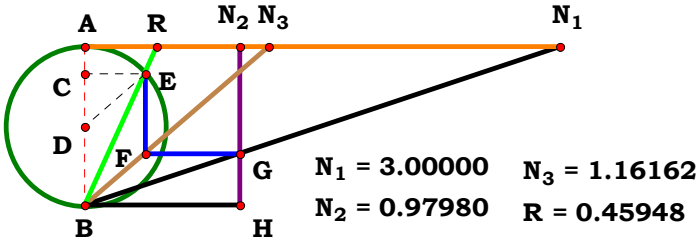
$$\frac{B \cdot \sqrt{\left(N_u^3 + N_u\right)^2} \cdot \left(N_u^2 - C + 1\right)}{N_u \cdot \sqrt{B^2 \cdot \left(N_u^2 - C + 1\right)^2} \cdot \left(N_u^2 + 1\right)}$$

1, 2, 3:

$$\frac{B \cdot \sqrt{\left(A^2 \cdot N_u + N_u^3\right)^2} \cdot \left(A^2 - C \cdot A + N_u^2\right)}{\sqrt{B^2 \cdot \left(A^2 - C \cdot A + N_u^2\right)^2} \cdot N_u \cdot \left(A^2 + N_u^2\right)}$$



2SMT4R3



Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := .97980$ $N_3 := 1.16162$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{2 \cdot A \cdot N_u^3}{\sqrt{B^2 \cdot C^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6 + B \cdot C \cdot N_u^2}} = 0.459482$$

$$Num := \frac{2 \cdot A \cdot N_u^3}{\sqrt{(2 \cdot A \cdot N_u^3)^2}}$$

$$Den := \frac{\sqrt{B^2 \cdot C^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6 + B \cdot C \cdot N_u^2}}{\sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6 + B \cdot C \cdot N_u^2}\right)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A \cdot N_u^3 \cdot \sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6 + B \cdot C \cdot N_u^2}\right)^2}}{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6 + B \cdot C \cdot N_u^2}\right) \cdot \sqrt{A^2 \cdot N_u^6}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u^3 \cdot \sqrt{\left(N_u^2 + \sqrt{N_u^4 - 4 \cdot N_u^6}\right)^2}}{\sqrt{N_u^6} \cdot \left(N_u^2 + \sqrt{N_u^4 - 4 \cdot N_u^6}\right)}$$

1, 0, 0:

$$\frac{A \cdot N_u^3 \cdot \sqrt{\left(\sqrt{N_u^4 - 4 \cdot A^2 \cdot N_u^6} + N_u^2\right)^2}}{\left(\sqrt{N_u^4 - 4 \cdot A^2 \cdot N_u^6} + N_u^2\right) \cdot \sqrt{A^2 \cdot N_u^6}}$$

0, 2, 0:

$$\frac{N_u^3 \cdot \sqrt{\left(\sqrt{B^2 \cdot N_u^4 - 4 \cdot N_u^6} + B \cdot N_u^2\right)^2}}{\sqrt{N_u^6} \cdot \left(\sqrt{B^2 \cdot N_u^4 - 4 \cdot N_u^6} + B \cdot N_u^2\right)}$$

1, 2, 0:

$$\frac{A \cdot N_u^3 \cdot \sqrt{\left(\sqrt{B^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6} + B \cdot N_u^2\right)^2}}{\left(\sqrt{B^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6} + B \cdot N_u^2\right) \cdot \sqrt{A^2 \cdot N_u^6}}$$

0, 0, 3:

$$\frac{N_u^3 \cdot \sqrt{\left(\sqrt{C^2 \cdot N_u^4 - 4 \cdot N_u^6} + C \cdot N_u^2\right)^2}}{\sqrt{N_u^6} \cdot \left(\sqrt{C^2 \cdot N_u^4 - 4 \cdot N_u^6} + C \cdot N_u^2\right)}$$

1, 0, 3:

$$\frac{A \cdot N_u^3 \cdot \sqrt{\left(\sqrt{C^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6} + C \cdot N_u^2\right)^2}}{\left(\sqrt{C^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6} + C \cdot N_u^2\right) \cdot \sqrt{A^2 \cdot N_u^6}}$$

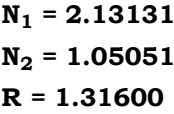
0, 2, 3:

$$\frac{N_u^3 \cdot \sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^4 - 4 \cdot N_u^6} + B \cdot C \cdot N_u^2\right)^2}}{\sqrt{N_u^6} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^4 - 4 \cdot N_u^6} + B \cdot C \cdot N_u^2\right)}$$

1, 2, 3:

$$\frac{A \cdot N_u^3 \cdot \sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6} + B \cdot C \cdot N_u^2\right)^2}}{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^4 - 4 \cdot A^2 \cdot N_u^6} + B \cdot C \cdot N_u^2\right) \cdot \sqrt{A^2 \cdot N_u^6}}$$

2SMT4R4


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$
$$\frac{\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2}}{\sqrt{\mathbf{A}^3 \cdot \mathbf{B}^3}} = 1.316$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2 \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2)}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

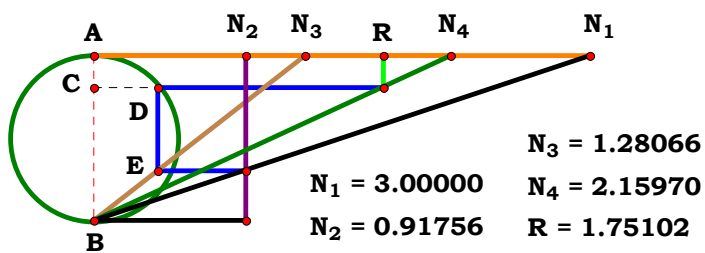
0, 0: 1

1, 0: $\frac{\mathbf{A} \cdot \sqrt{\mathbf{A}^2 - \mathbf{A} + \mathbf{N_u}^2}}{\sqrt{\mathbf{A}^2 \cdot (\mathbf{A}^2 - \mathbf{A} + \mathbf{N_u}^2)}}$

0, 2: $\frac{\mathbf{B} \cdot \sqrt{\mathbf{N_u}^2 - \mathbf{B} + 1}}{\sqrt{\mathbf{B}^2 \cdot (\mathbf{N_u}^2 - \mathbf{B} + 1)}}$

1, 2: $\frac{\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N_u}^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2 \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N_u}^2)}}$

2SMT4R5



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_u^2 - 4 \cdot \mathbf{A}^2 \cdot \mathbf{N}_u^4} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u}{2 \cdot \mathbf{D} \cdot \mathbf{B} \cdot \mathbf{C}} = 1.751012$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 - 4 \cdot \mathbf{A}^2 \cdot \mathbf{N_u}^4 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}}}{\sqrt{\left(\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 - 4 \cdot \mathbf{A}^2 \cdot \mathbf{N_u}^4 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}}\right)^2}}$$

$$\text{Den} := \frac{2 \cdot D \cdot B}{\sqrt{(2 \cdot D \cdot B)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{D}^2} \cdot \left(\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_u^2 - 4 \cdot \mathbf{A}^2 \cdot \mathbf{N}_u^4} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u \right)}{\mathbf{B} \cdot \mathbf{D} \cdot \sqrt{\left(\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_u^2 - 4 \cdot \mathbf{A}^2 \cdot \mathbf{N}_u^4} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u \right)^2}} = 0$$

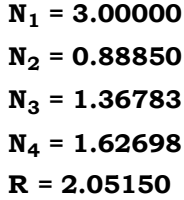


For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}}{\sqrt{\left(N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}\right)^2}}$
1, 0, 0, 0:	$\frac{N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4}}{\sqrt{\left(N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4}\right)^2}}$
0, 2, 0, 0:	$\frac{\left(B \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{B^2}}{B \cdot \sqrt{\left(B \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)^2}}$
1, 2, 0, 0:	$\frac{\sqrt{B^2} \cdot \left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot N_u\right)}{B \cdot \sqrt{\left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot N_u\right)^2}}$
0, 0, 3, 0:	$\frac{C \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}}{\sqrt{\left(C \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)^2}}$
1, 0, 3, 0:	$\frac{\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + C \cdot N_u}{\sqrt{\left(\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + C \cdot N_u\right)^2}}$
0, 2, 3, 0:	$\frac{\sqrt{B^2} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + B \cdot C \cdot N_u\right)}{B \cdot \sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + B \cdot C \cdot N_u\right)^2}}$
1, 2, 3, 0:	$\frac{\sqrt{B^2} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u\right)}{B \cdot \sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u\right)^2}}$

0, 0, 0, 4:	$\frac{\left(N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{D^2}}{D \cdot \sqrt{\left(N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}\right)^2}}$
1, 0, 0, 4:	$\frac{\sqrt{D^2} \cdot \left(N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4}\right)}{D \cdot \sqrt{\left(N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4}\right)^2}}$
0, 2, 0, 4:	$\frac{\left(B \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{B^2 \cdot D^2}}{B \cdot D \cdot \sqrt{\left(B \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)^2}}$
1, 2, 0, 4:	$\frac{\sqrt{B^2 \cdot D^2} \cdot \left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot N_u\right)}{B \cdot D \cdot \sqrt{\left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot N_u\right)^2}}$
0, 0, 3, 4:	$\frac{\left(C \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{D^2}}{D \cdot \sqrt{\left(C \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)^2}}$
1, 0, 3, 4:	$\frac{\sqrt{D^2} \cdot \left(\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + C \cdot N_u\right)}{D \cdot \sqrt{\left(\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + C \cdot N_u\right)^2}}$
0, 2, 3, 4:	$\frac{\sqrt{B^2 \cdot D^2} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + B \cdot C \cdot N_u\right)}{B \cdot D \cdot \sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + B \cdot C \cdot N_u\right)^2}}$
1, 2, 3, 4:	$\frac{\sqrt{B^2 \cdot D^2} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u\right)}{B \cdot D \cdot \sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u\right)^2}}$

2SMT4R6


$$\mathbf{N}_4 := 1.62698$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\frac{2 \cdot N_u^2 \cdot B \cdot C}{D \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u \right)} = 2.051499$$

$$\text{Num} := \frac{2 \cdot N_u^2 \cdot B \cdot C}{\sqrt{(2 \cdot N_u^2 \cdot B \cdot C)^2}}$$

$$\text{Den} := \frac{\mathbf{D} \cdot \left(\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_u^2 - 4 \cdot \mathbf{A}^2 \cdot \mathbf{N}_u^4} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u \right)}{\sqrt{\left[\mathbf{D} \cdot \left(\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_u^2 - 4 \cdot \mathbf{A}^2 \cdot \mathbf{N}_u^4} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u \right) \right]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

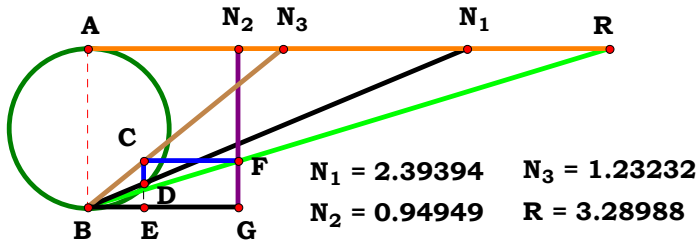
Num = 1 Den = 1 L = 1

$$L - \frac{B \cdot C \cdot N_u^2 \cdot \sqrt{D^2 \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u \right)^2}}{D \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u \right) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^4}} = 0$$

For 4 variables there are 16 subsets.

$$\begin{aligned}
 0, 0, 0, 0: & \frac{N_u^2 \cdot \sqrt{\left(N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}\right)^2}}{\left(N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{N_u^4}} \\
 1, 0, 0, 0: & \frac{N_u^2 \cdot \sqrt{\left(N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4}\right)^2}}{\sqrt{N_u^4} \cdot \left(N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4}\right)} \\
 0, 2, 0, 0: & \frac{B \cdot N_u^2 \cdot \sqrt{\left(B \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)^2}}{\left(B \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{B^2 \cdot N_u^4}} \\
 1, 2, 0, 0: & \frac{B \cdot N_u^2 \cdot \sqrt{\left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot N_u\right)^2}}{\sqrt{B^2 \cdot N_u^4} \cdot \left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot N_u\right)} \\
 0, 0, 3, 0: & \frac{C \cdot N_u^2 \cdot \sqrt{\left(C \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)^2}}{\left(C \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{C^2 \cdot N_u^4}} \\
 1, 0, 3, 0: & \frac{C \cdot N_u^2 \cdot \sqrt{\left(\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + C \cdot N_u\right)^2}}{\sqrt{C^2 \cdot N_u^4} \cdot \left(\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + C \cdot N_u\right)} \\
 0, 2, 3, 0: & \frac{B \cdot C \cdot N_u^2 \cdot \sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + B \cdot C \cdot N_u\right)^2}}{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + B \cdot C \cdot N_u\right) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^4}} \\
 1, 2, 3, 0: & \frac{B \cdot C \cdot N_u^2 \cdot \sqrt{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u\right)^2}}{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u\right) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^4}}
 \end{aligned}$$

$$\begin{aligned}
 0, 0, 0, 4: & \frac{N_u^2 \cdot \sqrt{D^2 \cdot \left(N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}\right)^2}}{D \cdot \left(N_u + \sqrt{N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{N_u^4}} \\
 1, 0, 0, 4: & \frac{N_u^2 \cdot \sqrt{D^2 \cdot \left(N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4}\right)^2}}{D \cdot \sqrt{N_u^4} \cdot \left(N_u + \sqrt{N_u^2 - 4 \cdot A^2 \cdot N_u^4}\right)} \\
 0, 2, 0, 4: & \frac{B \cdot N_u^2 \cdot \sqrt{D^2 \cdot \left(B \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)^2}}{D \cdot \left(B \cdot N_u + \sqrt{B^2 \cdot N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{B^2 \cdot N_u^4}} \\
 1, 2, 0, 4: & \frac{B \cdot N_u^2 \cdot \sqrt{D^2 \cdot \left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot N_u\right)^2}}{D \cdot \sqrt{B^2 \cdot N_u^4} \cdot \left(\sqrt{B^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot N_u\right)} \\
 0, 0, 3, 4: & \frac{C \cdot N_u^2 \cdot \sqrt{D^2 \cdot \left(C \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}\right)^2}}{D \cdot \left(C \cdot N_u + \sqrt{C^2 \cdot N_u^2 - 4 \cdot N_u^4}\right) \cdot \sqrt{C^2 \cdot N_u^4}} \\
 1, 0, 3, 4: & \frac{C \cdot N_u^2 \cdot \sqrt{D^2 \cdot \left(\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + C \cdot N_u\right)^2}}{D \cdot \sqrt{C^2 \cdot N_u^4} \cdot \left(\sqrt{C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + C \cdot N_u\right)} \\
 0, 2, 3, 4: & \frac{B \cdot C \cdot N_u^2 \cdot \sqrt{D^2 \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + B \cdot C \cdot N_u\right)^2}}{D \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot N_u^4} + B \cdot C \cdot N_u\right) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^4}} \\
 1, 2, 3, 4: & \frac{B \cdot C \cdot N_u^2 \cdot \sqrt{D^2 \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u\right)^2}}{D \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + B \cdot C \cdot N_u\right) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^4}}
 \end{aligned}$$



Unit. $AB := 1$ Given. $N_1 := 2.39394$ $N_2 := .94949$ $N_3 := 1.23232$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A^2 + N_u^2)}{A \cdot B \cdot C} = 3.289856$$

$$Num := \frac{N_u \cdot (A^2 + N_u^2)}{\sqrt{[N_u \cdot (A^2 + N_u^2)]^2}}$$

$$Den := \frac{A \cdot B \cdot C}{\sqrt{(A \cdot B \cdot C)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0, 0:

$$\frac{N_u \cdot \sqrt{A^2} \cdot (A^2 + N_u^2)}{A \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2, 0:

$$\frac{N_u \cdot \sqrt{B^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2, 0:

$$\frac{N_u \cdot \sqrt{A^2 \cdot B^2} \cdot (A^2 + N_u^2)}{A \cdot B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 0, 3:

$$\frac{N_u \cdot \sqrt{C^2} \cdot (N_u^2 + 1)}{C \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0, 3:

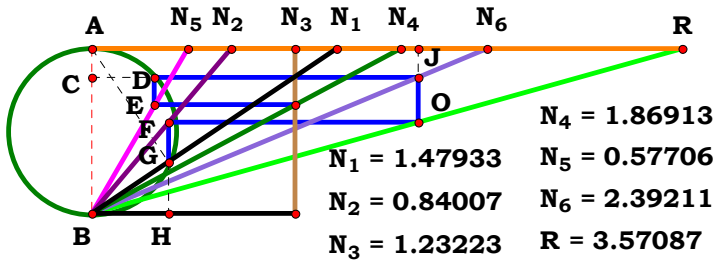
$$\frac{N_u \cdot \sqrt{A^2 \cdot C^2} \cdot (A^2 + N_u^2)}{A \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2, 3:

$$\frac{N_u \cdot \sqrt{B^2 \cdot C^2} \cdot (N_u^2 + 1)}{B \cdot C \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2, 3:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$



Unit. $AB := 1$ Given. $N_1 := 1.47933$ $N_2 := .84007$ $N_3 := 1.23223$

$N_4 := 1.86913$ $N_5 := .57706$ $N_6 := 2.39211$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{\left[\sqrt{N_u^2 \cdot \left(C^2 \cdot E^2 - 4 \cdot D^2 \cdot N_u^2\right)} + C \cdot E \cdot N_u\right] \cdot \left(A^2 + N_u^2\right)}{2 \cdot A \cdot B \cdot C \cdot E \cdot F} = 3.570887$$

$$\text{Num} := \frac{\left[\sqrt{N_u^2 \cdot \left(C^2 \cdot E^2 - 4 \cdot D^2 \cdot N_u^2\right)} + C \cdot E \cdot N_u\right] \cdot \left(A^2 + N_u^2\right)}{\sqrt{\left[\left[\sqrt{N_u^2 \cdot \left(C^2 \cdot E^2 - 4 \cdot D^2 \cdot N_u^2\right)} + C \cdot E \cdot N_u\right] \cdot \left(A^2 + N_u^2\right)\right]^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot B \cdot C \cdot E \cdot F}{\sqrt{\left(2 \cdot A \cdot B \cdot C \cdot E \cdot F\right)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{\left[\sqrt{N_u^2 \cdot \left(C^2 \cdot E^2 - 4 \cdot D^2 \cdot N_u^2\right)} + C \cdot E \cdot N_u\right] \cdot \left(A^2 + N_u^2\right) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2 \cdot E^2 \cdot F^2}}{A \cdot B \cdot C \cdot E \cdot F \cdot \sqrt{\left[\left[\sqrt{N_u^2 \cdot \left(C^2 \cdot E^2 - 4 \cdot D^2 \cdot N_u^2\right)} + C \cdot E \cdot N_u\right]^2 \cdot \left(A^2 + N_u^2\right)^2\right}}} = 0$$



For 6 variables there are 64 subsets.

$$\begin{aligned}
 0, 0, 0, 0, 0, 0: & \frac{\left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot N_u^2 - 1)} \right] \cdot (N_u^2 + 1)}{\sqrt{\left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot N_u^2 - 1)} \right]^2 \cdot (N_u^2 + 1)^2}} \\
 1, 0, 0, 0, 0, 0: & \frac{\sqrt{A^2 \cdot (A^2 + N_u^2)} \cdot \left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot N_u^2 - 1)} \right]}{A \cdot \sqrt{(A^2 + N_u^2)^2 \cdot \left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot N_u^2 - 1)} \right]^2}} \\
 0, 2, 0, 0, 0, 0: & \frac{\sqrt{B^2} \cdot \left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot N_u^2 - 1)} \right] \cdot (N_u^2 + 1)}{B \cdot \sqrt{\left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot N_u^2 - 1)} \right]^2 \cdot (N_u^2 + 1)^2}} \\
 1, 2, 0, 0, 0, 0: & \frac{\sqrt{A^2 \cdot B^2} \cdot (A^2 + N_u^2) \cdot \left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot N_u^2 - 1)} \right]}{A \cdot B \cdot \sqrt{(A^2 + N_u^2)^2 \cdot \left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot N_u^2 - 1)} \right]^2}} \\
 0, 0, 3, 0, 0, 0: & \frac{\left[C \cdot N_u + \sqrt{N_u^2 \cdot (C^2 - 4 \cdot N_u^2)} \right] \cdot \sqrt{C^2} \cdot (N_u^2 + 1)}{C \cdot \sqrt{\left[C \cdot N_u + \sqrt{N_u^2 \cdot (C^2 - 4 \cdot N_u^2)} \right]^2 \cdot (N_u^2 + 1)^2}} \\
 1, 0, 3, 0, 0, 0: & \frac{\left[C \cdot N_u + \sqrt{N_u^2 \cdot (C^2 - 4 \cdot N_u^2)} \right] \cdot \sqrt{A^2 \cdot C^2} \cdot (A^2 + N_u^2)}{A \cdot C \cdot \sqrt{\left[C \cdot N_u + \sqrt{N_u^2 \cdot (C^2 - 4 \cdot N_u^2)} \right]^2 \cdot (A^2 + N_u^2)^2}} \\
 0, 2, 3, 0, 0, 0: & \frac{\left[C \cdot N_u + \sqrt{N_u^2 \cdot (C^2 - 4 \cdot N_u^2)} \right] \cdot \sqrt{B^2 \cdot C^2} \cdot (N_u^2 + 1)}{B \cdot C \cdot \sqrt{\left[C \cdot N_u + \sqrt{N_u^2 \cdot (C^2 - 4 \cdot N_u^2)} \right]^2 \cdot (N_u^2 + 1)^2}} \\
 1, 2, 3, 0, 0, 0: & \frac{\left[C \cdot N_u + \sqrt{N_u^2 \cdot (C^2 - 4 \cdot N_u^2)} \right] \cdot (A^2 + N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{\left[C \cdot N_u + \sqrt{N_u^2 \cdot (C^2 - 4 \cdot N_u^2)} \right]^2 \cdot (A^2 + N_u^2)^2}}
 \end{aligned}$$

$$\begin{aligned}
 0, 0, 0, 4, 0, 0: & \frac{\left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)} \right] \cdot (N_u^2 + 1)}{\sqrt{\left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)} \right]^2 \cdot (N_u^2 + 1)^2}} \\
 1, 0, 0, 4, 0, 0: & \frac{\sqrt{A^2} \cdot \left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)} \right] \cdot (A^2 + N_u^2)}{A \cdot \sqrt{\left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)} \right]^2 \cdot (A^2 + N_u^2)^2}} \\
 0, 2, 0, 4, 0, 0: & \frac{\sqrt{B^2} \cdot \left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)} \right] \cdot (N_u^2 + 1)}{B \cdot \sqrt{\left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)} \right]^2 \cdot (N_u^2 + 1)^2}} \\
 1, 2, 0, 4, 0, 0: & \frac{\left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)} \right] \cdot \sqrt{A^2 \cdot B^2} \cdot (A^2 + N_u^2)}{A \cdot B \cdot \sqrt{\left[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)} \right]^2 \cdot (A^2 + N_u^2)^2}} \\
 0, 0, 3, 4, 0, 0: & \frac{\sqrt{C^2} \cdot (N_u^2 + 1) \cdot \left[\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u \right]}{C \cdot \sqrt{(N_u^2 + 1)^2 \cdot \left[\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u \right]^2}} \\
 1, 0, 3, 4, 0, 0: & \frac{\sqrt{A^2 \cdot C^2} \cdot (A^2 + N_u^2) \cdot \left[\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u \right]}{A \cdot C \cdot \sqrt{(A^2 + N_u^2)^2 \cdot \left[\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u \right]^2}} \\
 0, 2, 3, 4, 0, 0: & \frac{\sqrt{B^2 \cdot C^2} \cdot (N_u^2 + 1) \cdot \left[\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u \right]}{B \cdot C \cdot \sqrt{(N_u^2 + 1)^2 \cdot \left[\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u \right]^2}} \\
 1, 2, 3, 4, 0, 0: & \frac{(A^2 + N_u^2) \cdot \left[\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u \right] \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{(A^2 + N_u^2)^2 \cdot \left[\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u \right]^2}}
 \end{aligned}$$



[illegible]

[illegible]



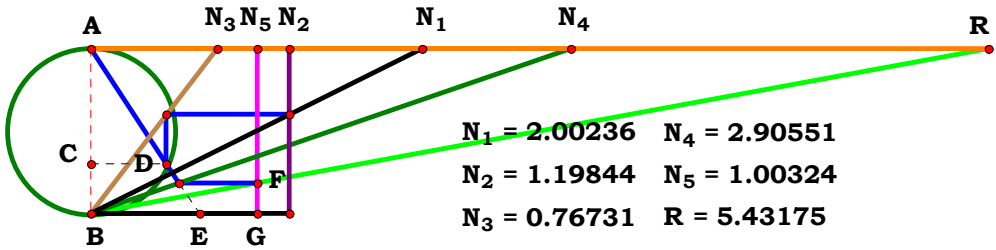
[illegible]

0, 0, 0, 4, 0, 6:	$\frac{\sqrt{F^2} \cdot [N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)}] \cdot (N_u^2 + 1)}{F \cdot \sqrt{[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)}]^2 \cdot (N_u^2 + 1)^2}}$
1, 0, 0, 4, 0, 6:	$\frac{[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)}] \cdot \sqrt{A^2 \cdot F^2 \cdot (A^2 + N_u^2)}}{A \cdot F \cdot \sqrt{[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)}]^2 \cdot (A^2 + N_u^2)^2}}$
0, 2, 0, 4, 0, 6:	$\frac{[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)}] \cdot \sqrt{B^2 \cdot F^2 \cdot (N_u^2 + 1)}}{B \cdot F \cdot \sqrt{[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)}]^2 \cdot (N_u^2 + 1)^2}}$
1, 2, 0, 4, 0, 6:	$\frac{[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)}] \cdot (A^2 + N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot F^2}}{A \cdot B \cdot F \cdot \sqrt{[N_u + \sqrt{-N_u^2 \cdot (4 \cdot D^2 \cdot N_u^2 - 1)}]^2 \cdot (A^2 + N_u^2)^2}}$
0, 0, 3, 4, 0, 6:	$\frac{\sqrt{C^2 \cdot F^2 \cdot (N_u^2 + 1)} \cdot [\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u]}{C \cdot F \cdot \sqrt{(N_u^2 + 1)^2 \cdot [\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u]^2}}$
1, 0, 3, 4, 0, 6:	$\frac{(A^2 + N_u^2) \cdot [\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u] \cdot \sqrt{A^2 \cdot C^2 \cdot F^2}}{A \cdot C \cdot F \cdot \sqrt{(A^2 + N_u^2)^2 \cdot [\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u]^2}}$
0, 2, 3, 4, 0, 6:	$\frac{(N_u^2 + 1) \cdot [\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u] \cdot \sqrt{B^2 \cdot C^2 \cdot F^2}}{B \cdot C \cdot F \cdot \sqrt{(N_u^2 + 1)^2 \cdot [\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u]^2}}$
1, 2, 3, 4, 0, 6:	$\frac{(A^2 + N_u^2) \cdot [\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u] \cdot \sqrt{A^2 \cdot B^2 \cdot C^2 \cdot F^2}}{A \cdot B \cdot C \cdot F \cdot \sqrt{(A^2 + N_u^2)^2 \cdot [\sqrt{N_u^2 \cdot (C^2 - 4 \cdot D^2 \cdot N_u^2)} + C \cdot N_u]^2}}$



[illegible]

[illegible]



Unit.

$AB := 1$

Given.

$N_1 := 2.00236$

$N_2 := 1.19844$

$N_3 := .76731$

$N_4 := 2.90551$

$N_5 := 1.00324$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + B \cdot C)}{2 \cdot A \cdot D \cdot E} = 5.431813$$

$$Num := \frac{\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + B \cdot C)}{\sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + B \cdot C)\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot D \cdot E}{\sqrt{(2 \cdot A \cdot D \cdot E)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

Num = 1

Den = 1

L = 1

$$L - \frac{\left(\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + 2 \cdot A \cdot D \cdot N_u + B \cdot C \cdot N_u\right) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_u^2 - 4 \cdot A^2 \cdot N_u^4} + N_u \cdot (2 \cdot A \cdot D + B \cdot C)\right]^2}} = 0$$



For 5 variables there are 32 subsets.

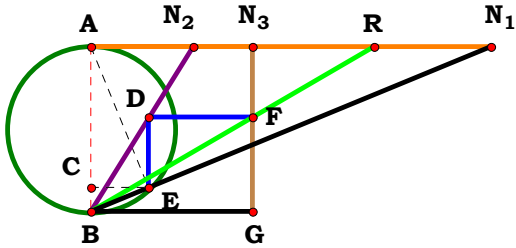
$$\begin{array}{l}
 \text{0, 0, 0, 0, 0:} \quad \frac{3 \cdot N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4}}{\sqrt{\left(3 \cdot N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4}\right)^2}} \\
 \text{1, 0, 0, 0, 0:} \quad \frac{\sqrt{A^2} \cdot \left(N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + 2 \cdot A \cdot N_{\mathbf{u}}\right)}{A \cdot \sqrt{\left[\sqrt{N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (2 \cdot A + 1)\right]^2}} \\
 \text{0, 2, 0, 0, 0:} \quad \frac{2 \cdot N_{\mathbf{u}} + B \cdot N_{\mathbf{u}} + \sqrt{B^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4}}{\sqrt{\left[\sqrt{B^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (B + 2)\right]^2}} \\
 \text{1, 2, 0, 0, 0:} \quad \frac{\sqrt{A^2} \cdot \left(\sqrt{B^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + 2 \cdot A \cdot N_{\mathbf{u}} + B \cdot N_{\mathbf{u}}\right)}{A \cdot \sqrt{\left[\sqrt{B^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (2 \cdot A + B)\right]^2}} \\
 \text{0, 0, 3, 0, 0:} \quad \frac{2 \cdot N_{\mathbf{u}} + C \cdot N_{\mathbf{u}} + \sqrt{C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4}}{\sqrt{\left[\sqrt{C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (C + 2)\right]^2}} \\
 \text{1, 0, 3, 0, 0:} \quad \frac{\sqrt{A^2} \cdot \left(\sqrt{C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + 2 \cdot A \cdot N_{\mathbf{u}} + C \cdot N_{\mathbf{u}}\right)}{A \cdot \sqrt{\left[\sqrt{C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (2 \cdot A + C)\right]^2}} \\
 \text{0, 2, 3, 0, 0:} \quad \frac{2 \cdot N_{\mathbf{u}} + \sqrt{B^2 \cdot C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4} + B \cdot C \cdot N_{\mathbf{u}}}{\sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (B \cdot C + 2)\right]^2}} \\
 \text{1, 2, 3, 0, 0:} \quad \frac{\sqrt{A^2} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + 2 \cdot A \cdot N_{\mathbf{u}} + B \cdot C \cdot N_{\mathbf{u}}\right)}{A \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (2 \cdot A + B \cdot C)\right]^2}}
 \end{array}$$

$$\begin{array}{l}
 \text{0, 0, 0, 4, 0:} \quad \frac{\sqrt{D^2} \cdot \left(N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4} + 2 \cdot D \cdot N_{\mathbf{u}}\right)}{D \cdot \sqrt{\left[N_{\mathbf{u}} \cdot (2 \cdot D + 1) + \sqrt{N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4}\right]^2}} \\
 \text{1, 0, 0, 4, 0:} \quad \frac{\sqrt{A^2 \cdot D^2} \cdot \left(N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + 2 \cdot A \cdot D \cdot N_{\mathbf{u}}\right)}{A \cdot D \cdot \sqrt{\left[\sqrt{N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (2 \cdot A \cdot D + 1)\right]^2}} \\
 \text{0, 2, 0, 4, 0:} \quad \frac{\sqrt{D^2} \cdot \left(B \cdot N_{\mathbf{u}} + 2 \cdot D \cdot N_{\mathbf{u}} + \sqrt{B^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4}\right)}{D \cdot \sqrt{\left[\sqrt{B^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (B + 2 \cdot D)\right]^2}} \\
 \text{1, 2, 0, 4, 0:} \quad \frac{\sqrt{A^2 \cdot D^2} \cdot \left(\sqrt{B^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + B \cdot N_{\mathbf{u}} + 2 \cdot A \cdot D \cdot N_{\mathbf{u}}\right)}{A \cdot D \cdot \sqrt{\left[\sqrt{B^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (B + 2 \cdot A \cdot D)\right]^2}} \\
 \text{0, 0, 3, 4, 0:} \quad \frac{\sqrt{D^2} \cdot \left(C \cdot N_{\mathbf{u}} + 2 \cdot D \cdot N_{\mathbf{u}} + \sqrt{C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4}\right)}{D \cdot \sqrt{\left[\sqrt{C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (C + 2 \cdot D)\right]^2}} \\
 \text{1, 0, 3, 4, 0:} \quad \frac{\sqrt{A^2 \cdot D^2} \cdot \left(\sqrt{C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + C \cdot N_{\mathbf{u}} + 2 \cdot A \cdot D \cdot N_{\mathbf{u}}\right)}{A \cdot D \cdot \sqrt{\left[\sqrt{C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (C + 2 \cdot A \cdot D)\right]^2}} \\
 \text{0, 2, 3, 4, 0:} \quad \frac{\sqrt{D^2} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4} + 2 \cdot D \cdot N_{\mathbf{u}} + B \cdot C \cdot N_{\mathbf{u}}\right)}{D \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (2 \cdot D + B \cdot C)\right]^2}} \\
 \text{1, 2, 3, 4, 0:} \quad \frac{\sqrt{A^2 \cdot D^2} \cdot \left(\sqrt{B^2 \cdot C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + 2 \cdot A \cdot D \cdot N_{\mathbf{u}} + B \cdot C \cdot N_{\mathbf{u}}\right)}{A \cdot D \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 \cdot N_{\mathbf{u}}^2 - 4 \cdot A^2 \cdot N_{\mathbf{u}}^4} + N_{\mathbf{u}} \cdot (2 \cdot A \cdot D + B \cdot C)\right]^2}}
 \end{array}$$



[illegible]

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N₁ = 2.41885
N₂ = 0.61730
N₃ = 0.98040
R = 1.71409

Unit. AB := 1 Given. N₁ := 2.41885 N₂ := .61730 N₃ := .98040

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

Descriptions.

$\frac{N_u \cdot (A^2 + N_u^2)}{A \cdot B \cdot C} = 1.714092$

Num := $\frac{N_u \cdot (A^2 + N_u^2)}{\sqrt{[N_u \cdot (A^2 + N_u^2)]^2}}$

Den := $\frac{A \cdot B \cdot C}{\sqrt{(A \cdot B \cdot C)^2}}$ L := $\frac{Num}{Den}$

Definitions.

Num = 1 Den = 1 L = 1

$L - \frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}} = 0$



For 3 variables there are 8 subsets.

0, 0, 0:
$$\frac{N_u \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0, 0:
$$\frac{N_u \cdot \sqrt{A^2} \cdot (A^2 + N_u^2)}{A \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2, 0:
$$\frac{N_u \cdot \sqrt{B^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

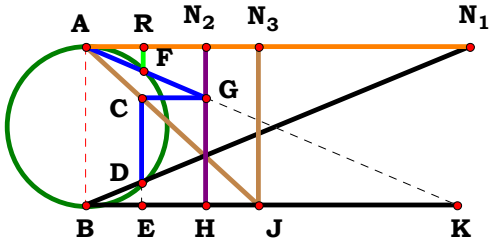
1, 2, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot B^2} \cdot (A^2 + N_u^2)}{A \cdot B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 0, 3:
$$\frac{N_u \cdot \sqrt{C^2} \cdot (N_u^2 + 1)}{C \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0, 3:
$$\frac{N_u \cdot \sqrt{A^2 \cdot C^2} \cdot (A^2 + N_u^2)}{A \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2, 3:
$$\frac{N_u \cdot \sqrt{B^2 \cdot C^2} \cdot (N_u^2 + 1)}{B \cdot C \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2, 3:
$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$$



$N_1 = 2.42424$
 $N_2 = 0.75758$
 $N_3 = 1.09091$
 $R = 0.36089$

Unit. $AB := 1$ Given. $N_1 := 2.42424$ $N_2 := .75758$ $N_3 := 1.09091$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{A \cdot B \cdot C \cdot N_u \cdot (A^2 + N_u^2)}{N_u^2 \cdot (A^2 + N_u^2)^2 + A^2 \cdot B^2 \cdot C^2} = 0.360884$$

$$Num := \frac{A \cdot B \cdot C \cdot N_u \cdot (A^2 + N_u^2)}{\sqrt{[A \cdot B \cdot C \cdot N_u \cdot (A^2 + N_u^2)]^2}}$$

$$Den := \frac{N_u^2 \cdot (A^2 + N_u^2)^2 + A^2 \cdot B^2 \cdot C^2}{\sqrt{[N_u^2 \cdot (A^2 + N_u^2)^2 + A^2 \cdot B^2 \cdot C^2]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A \cdot B \cdot C \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{[N_u^2 \cdot (A^2 + N_u^2)^2 + A^2 \cdot B^2 \cdot C^2]^2}}{(A^4 \cdot N_u^2 + A^2 \cdot B^2 \cdot C^2 + 2 \cdot A^2 \cdot N_u^4 + N_u^6) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u \cdot \sqrt{\left[N_u^2 \cdot (N_u^2 + 1)^2 + 1\right]^2} \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2} \cdot (N_u^6 + 2 \cdot N_u^4 + N_u^2 + 1)}$$

1, 0, 0:

$$\frac{A \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{\left[N_u^2 \cdot (A^2 + N_u^2)^2 + A^2\right]^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A^4 \cdot N_u^2 + 2 \cdot A^2 \cdot N_u^4 + A^2 + N_u^6)}$$

0, 2, 0:

$$\frac{B \cdot N_u \cdot \sqrt{\left[B^2 + N_u^2 \cdot (N_u^2 + 1)^2\right]^2} \cdot (N_u^2 + 1)}{\sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2} \cdot (B^2 + N_u^6 + 2 \cdot N_u^4 + N_u^2)}$$

1, 2, 0:

$$\frac{A \cdot B \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{\left[N_u^2 \cdot (A^2 + N_u^2)^2 + A^2 \cdot B^2\right]^2}}{(A^4 \cdot N_u^2 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^4 + N_u^6) \cdot \sqrt{A^2 \cdot B^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 0, 3:

$$\frac{C \cdot N_u \cdot \sqrt{\left[C^2 + N_u^2 \cdot (N_u^2 + 1)^2\right]^2} \cdot (N_u^2 + 1)}{\sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2} \cdot (C^2 + N_u^6 + 2 \cdot N_u^4 + N_u^2)}$$

1, 0, 3:

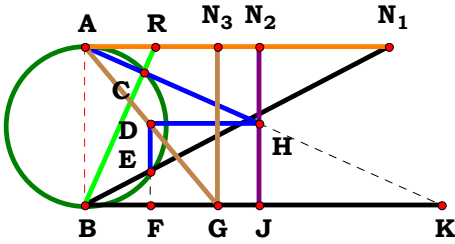
$$\frac{A \cdot C \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{\left[N_u^2 \cdot (A^2 + N_u^2)^2 + A^2 \cdot C^2\right]^2}}{(A^4 \cdot N_u^2 + A^2 \cdot C^2 + 2 \cdot A^2 \cdot N_u^4 + N_u^6) \cdot \sqrt{A^2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$$

0, 2, 3:

$$\frac{B \cdot C \cdot N_u \cdot \sqrt{\left[B^2 \cdot C^2 + N_u^2 \cdot (N_u^2 + 1)^2\right]^2} \cdot (N_u^2 + 1)}{(B^2 \cdot C^2 + N_u^6 + 2 \cdot N_u^4 + N_u^2) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2, 3:

$$\frac{A \cdot B \cdot C \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{\left[N_u^2 \cdot (A^2 + N_u^2)^2 + A^2 \cdot B^2 \cdot C^2\right]^2}}{(A^4 \cdot N_u^2 + A^2 \cdot B^2 \cdot C^2 + 2 \cdot A^2 \cdot N_u^4 + N_u^6) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$$



N₁ = 1.91919
N₂ = 1.10101
N₃ = 0.83838
R = 0.44395

Unit. AB := 1 Given. N₁ := 1.91919 N₂ := 1.10101 N₃ := .83838

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

Descriptions.

$$\frac{A \cdot B \cdot C}{A^2 \cdot N_u + N_u^3} = 0.443951$$

$$\text{Num} := \frac{A \cdot B \cdot C}{\sqrt{(A \cdot B \cdot C)^2}}$$

$$\text{Den} := \frac{A^2 \cdot N_u + N_u^3}{\sqrt{(A^2 \cdot N_u + N_u^3)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot B \cdot C \cdot \sqrt{(A^2 \cdot N_u + N_u^3)^2}}{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{\sqrt{\left(N_u^3+N_u\right)^2}}{N_u\cdot\left(N_u^2+1\right)}$$

0, 0, 3:

$$\frac{C\cdot\sqrt{\left(N_u^3+N_u\right)^2}}{N_u\cdot\sqrt{C^2\cdot\left(N_u^2+1\right)}}$$

1, 0, 0:

$$\frac{A\cdot\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2}}{N_u\cdot\sqrt{A^2\cdot\left(A^2+N_u^2\right)}}$$

1, 0, 3:

$$\frac{A\cdot C\cdot\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2}}{N_u\cdot\sqrt{A^2\cdot C^2\cdot\left(A^2+N_u^2\right)}}$$

0, 2, 0:

$$\frac{B\cdot\sqrt{\left(N_u^3+N_u\right)^2}}{N_u\cdot\sqrt{B^2\cdot\left(N_u^2+1\right)}}$$

0, 2, 3:

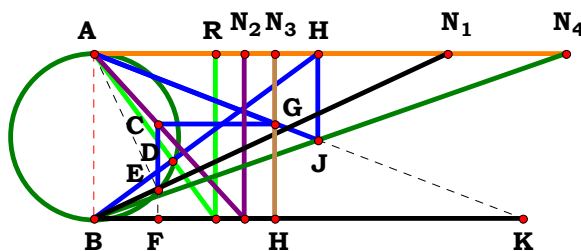
$$\frac{B\cdot C\cdot\sqrt{\left(N_u^3+N_u\right)^2}}{N_u\cdot\sqrt{B^2\cdot C^2\cdot\left(N_u^2+1\right)}}$$

1, 2, 0:

$$\frac{A\cdot B\cdot\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2}}{N_u\cdot\sqrt{A^2\cdot B^2\cdot\left(A^2+N_u^2\right)}}$$

1, 2, 3:

$$\frac{A\cdot B\cdot C\cdot\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2}}{N_u\cdot\left(A^2+N_u^2\right)\cdot\sqrt{A^2\cdot B^2\cdot C^2}}$$



N₁ = 2.13797
N₂ = 0.90787
N₃ = 1.09663
N₄ = 2.85708
R = 0.73548

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{D \cdot A^2 + B \cdot C \cdot A + D \cdot N_u^2}{A^2 \cdot N_u + N_u^3} = 0.735478$$

$$\mathbf{Num} := \frac{\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{A} + \mathbf{D} \cdot \mathbf{N}_u^2}{\sqrt{(\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{A} + \mathbf{D} \cdot \mathbf{N}_u^2)^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^3}{\sqrt{(\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^3)^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{(\mathbf{A}^2 \cdot \mathbf{N}_u + \mathbf{N}_u^3)^2} \cdot (\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{A} + \mathbf{D} \cdot \mathbf{N}_u^2)}{\mathbf{N}_u \cdot (\mathbf{A}^2 + \mathbf{N}_u^2) \cdot \sqrt{(\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{A} + \mathbf{D} \cdot \mathbf{N}_u^2)^2}} = \mathbf{0}$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{\sqrt{\left(N_u^3+N_u\right)^2\cdot\left(N_u^2+2\right)}}{N_u\cdot\sqrt{\left(N_u^2+2\right)^2\cdot\left(N_u^2+1\right)}}$$

1, 0, 0, 0:

$$\frac{\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2\cdot\left(A^2+A+N_u^2\right)}}{N_u\cdot\sqrt{\left(A^2+A+N_u^2\right)^2\cdot\left(A^2+N_u^2\right)}}$$

0, 2, 0, 0:

$$\frac{\sqrt{\left(N_u^3+N_u\right)^2\cdot\left(N_u^2+B+1\right)}}{N_u\cdot\sqrt{\left(N_u^2+B+1\right)^2\cdot\left(N_u^2+1\right)}}$$

1, 2, 0, 0:

$$\frac{\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2\cdot\left(A^2+B\cdot A+N_u^2\right)}}{N_u\cdot\left(A^2+N_u^2\right)\cdot\sqrt{\left(A^2+B\cdot A+N_u^2\right)^2}}$$

0, 0, 3, 0:

$$\frac{\sqrt{\left(N_u^3+N_u\right)^2\cdot\left(N_u^2+C+1\right)}}{N_u\cdot\sqrt{\left(N_u^2+C+1\right)^2\cdot\left(N_u^2+1\right)}}$$

1, 0, 3, 0:

$$\frac{\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2\cdot\left(A^2+C\cdot A+N_u^2\right)}}{N_u\cdot\left(A^2+N_u^2\right)\cdot\sqrt{\left(A^2+C\cdot A+N_u^2\right)^2}}$$

0, 2, 3, 0:

$$\frac{\sqrt{\left(N_u^3+N_u\right)^2\cdot\left(N_u^2+B\cdot C+1\right)}}{N_u\cdot\sqrt{\left(N_u^2+B\cdot C+1\right)^2\cdot\left(N_u^2+1\right)}}$$

1, 2, 3, 0:

$$\frac{\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2\cdot\left(A^2+B\cdot C\cdot A+N_u^2\right)}}{N_u\cdot\sqrt{\left(A^2+B\cdot C\cdot A+N_u^2\right)^2\cdot\left(A^2+N_u^2\right)}}$$

0, 0, 0, 4:

$$\frac{\sqrt{\left(N_u^3+N_u\right)^2\cdot\left(D\cdot N_u^2+D+1\right)}}{N_u\cdot\sqrt{\left(D\cdot N_u^2+D+1\right)^2\cdot\left(N_u^2+1\right)}}$$

1, 0, 0, 4:

$$\frac{\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2\cdot\left(D\cdot A^2+A+D\cdot N_u^2\right)}}{N_u\cdot\left(A^2+N_u^2\right)\cdot\sqrt{\left(D\cdot A^2+A+D\cdot N_u^2\right)^2}}$$

0, 2, 0, 4:

$$\frac{\sqrt{\left(N_u^3+N_u\right)^2\cdot\left(D\cdot N_u^2+B+D\right)}}{N_u\cdot\sqrt{\left(D\cdot N_u^2+B+D\right)^2\cdot\left(N_u^2+1\right)}}$$

1, 2, 0, 4:

$$\frac{\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2\cdot\left(D\cdot A^2+B\cdot A+D\cdot N_u^2\right)}}{N_u\cdot\sqrt{\left(D\cdot A^2+B\cdot A+D\cdot N_u^2\right)^2\cdot\left(A^2+N_u^2\right)}}$$

0, 0, 3, 4:

$$\frac{\sqrt{\left(N_u^3+N_u\right)^2\cdot\left(D\cdot N_u^2+C+D\right)}}{N_u\cdot\sqrt{\left(D\cdot N_u^2+C+D\right)^2\cdot\left(N_u^2+1\right)}}$$

1, 0, 3, 4:

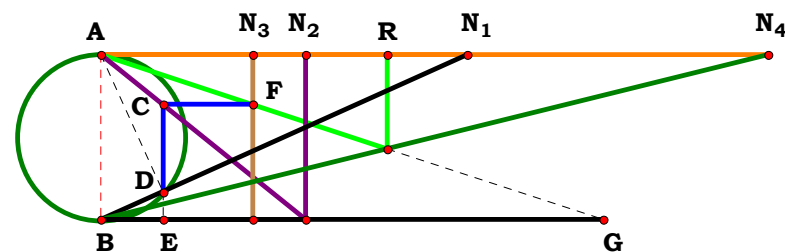
$$\frac{\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2\cdot\left(D\cdot A^2+C\cdot A+D\cdot N_u^2\right)}}{N_u\cdot\sqrt{\left(D\cdot A^2+C\cdot A+D\cdot N_u^2\right)^2\cdot\left(A^2+N_u^2\right)}}$$

0, 2, 3, 4:

$$\frac{\sqrt{\left(N_u^3+N_u\right)^2\cdot\left(D\cdot N_u^2+D+B\cdot C\right)}}{N_u\cdot\sqrt{\left(D\cdot N_u^2+D+B\cdot C\right)^2\cdot\left(N_u^2+1\right)}}$$

1, 2, 3, 4:

$$\frac{\sqrt{\left(A^2\cdot N_u+N_u^3\right)^2\cdot\left(D\cdot A^2+B\cdot C\cdot A+D\cdot N_u^2\right)}}{N_u\cdot\left(A^2+N_u^2\right)\cdot\sqrt{\left(D\cdot A^2+B\cdot C\cdot A+D\cdot N_u^2\right)^2}}$$

Unit. AB := 1 Given. $N_1 := 2.21545$ $N_2 := 1.23719$ $N_3 := .92228$
$$N_4 := 4.03874$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)}{\mathbf{A}^2 \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} + \mathbf{D} \cdot \mathbf{N_u}^2} = 1.735415$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)}{\sqrt{[\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A}^2 \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2}{\sqrt{(\mathbf{A}^2 \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2)^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{(\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{A} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2)^2}}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{A} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2)}} = \mathbf{0}$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{(N_u^2 + 2)^2 \cdot (N_u^2 + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 + 2)}}$$

1, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{(A^2 + A + N_u^2)^2 \cdot (A^2 + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 + A + N_u^2)}}$$

0, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{(N_u^2 + B + 1)^2 \cdot (N_u^2 + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 + B + 1)}}$$

1, 2, 0, 0:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 + B \cdot A + N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 + B \cdot A + N_u^2)}}$$

0, 0, 3, 0:

$$\frac{N_u \cdot \sqrt{(N_u^2 + C + 1)^2 \cdot (N_u^2 + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 + C + 1)}}$$

1, 0, 3, 0:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 + C \cdot A + N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 + C \cdot A + N_u^2)}}$$

0, 2, 3, 0:

$$\frac{N_u \cdot \sqrt{(N_u^2 + B \cdot C + 1)^2 \cdot (N_u^2 + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 + B \cdot C + 1)}}$$

1, 2, 3, 0:

$$\frac{N_u \cdot \sqrt{(A^2 + B \cdot C \cdot A + N_u^2)^2 \cdot (A^2 + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 + B \cdot C \cdot A + N_u^2)}}$$

0, 0, 0, 4:

$$\frac{N_u \cdot \sqrt{(D \cdot N_u^2 + D + 1)^2 \cdot (N_u^2 + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (D \cdot N_u^2 + D + 1)}}$$

1, 0, 0, 4:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(D \cdot A^2 + A + D \cdot N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (D \cdot A^2 + A + D \cdot N_u^2)}}$$

0, 2, 0, 4:

$$\frac{N_u \cdot \sqrt{(D \cdot N_u^2 + B + D)^2 \cdot (N_u^2 + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (D \cdot N_u^2 + B + D)}}$$

1, 2, 0, 4:

$$\frac{N_u \cdot \sqrt{(D \cdot A^2 + B \cdot A + D \cdot N_u^2)^2 \cdot (A^2 + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (D \cdot A^2 + B \cdot A + D \cdot N_u^2)}}$$

0, 0, 3, 4:

$$\frac{N_u \cdot \sqrt{(D \cdot N_u^2 + C + D)^2 \cdot (N_u^2 + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (D \cdot N_u^2 + C + D)}}$$

1, 0, 3, 4:

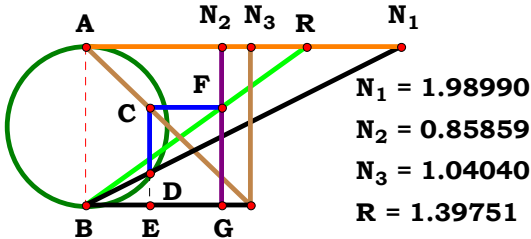
$$\frac{N_u \cdot \sqrt{(D \cdot A^2 + C \cdot A + D \cdot N_u^2)^2 \cdot (A^2 + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (D \cdot A^2 + C \cdot A + D \cdot N_u^2)}}$$

0, 2, 3, 4:

$$\frac{N_u \cdot \sqrt{(D \cdot N_u^2 + D + B \cdot C)^2 \cdot (N_u^2 + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (D \cdot N_u^2 + D + B \cdot C)}}$$

1, 2, 3, 4:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(D \cdot A^2 + B \cdot C \cdot A + D \cdot N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (D \cdot A^2 + B \cdot C \cdot A + D \cdot N_u^2)}}$$



Unit. $AB := 1$ Given. $N_1 := 1.98990$ $N_2 := .85859$ $N_3 := 1.04040$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u \cdot (A^2 + N_u^2)}{B \cdot (A^2 - A \cdot C + N_u^2)} = 1.397522$$

$$Num := \frac{N_u \cdot (A^2 + N_u^2)}{\sqrt{\left[N_u \cdot (A^2 + N_u^2)\right]^2}}$$

$$Den := \frac{B \cdot (A^2 - A \cdot C + N_u^2)}{\sqrt{\left[B \cdot (A^2 - A \cdot C + N_u^2)\right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot (A^2 - C \cdot A + N_u^2)^2 \cdot (A^2 + N_u^2)}}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - C \cdot A + N_u^2)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:
$$\frac{\sqrt{N_u^4 \cdot (N_u^2 + 1)}}{N_u \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0, 0:
$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 - A + N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - A + N_u^2)}}$$

0, 2, 0:
$$\frac{\sqrt{B^2 \cdot N_u^4 \cdot (N_u^2 + 1)}}{B \cdot N_u \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

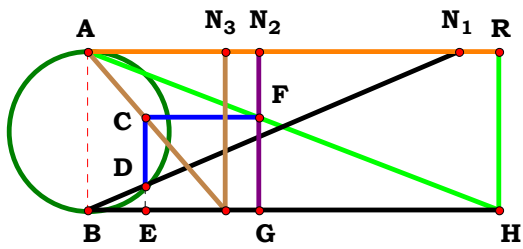
1, 2, 0:
$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{B^2 \cdot (A^2 - A + N_u^2)^2}}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - A + N_u^2)}}$$

0, 0, 3:
$$\frac{N_u \cdot (N_u^2 + 1) \cdot \sqrt{(N_u^2 - C + 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - C + 1)}}$$

1, 0, 3:
$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 - C \cdot A + N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - C \cdot A + N_u^2)}}$$

0, 2, 3:
$$\frac{N_u \cdot \sqrt{B^2 \cdot (N_u^2 - C + 1)^2 \cdot (N_u^2 + 1)}}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - C + 1)}}$$

1, 2, 3:
$$\frac{N_u \cdot \sqrt{B^2 \cdot (A^2 - C \cdot A + N_u^2)^2 \cdot (A^2 + N_u^2)}}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - C \cdot A + N_u^2)}}$$



$N_1 = 2.34343$
 $N_2 = 1.08081$
 $N_3 = 0.86869$
 $R = 2.60086$

Unit. $AB := 1$ Given. $N_1 := 2.34343$ $N_2 := 1.08081$ $N_3 := .86869$

 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A^2 + N_u^2)}{A \cdot B \cdot C} = 2.600868$$

$$Num := \frac{N_u \cdot (A^2 + N_u^2)}{\sqrt{[N_u \cdot (A^2 + N_u^2)]^2}}$$

$$Den := \frac{A \cdot B \cdot C}{\sqrt{(A \cdot B \cdot C)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

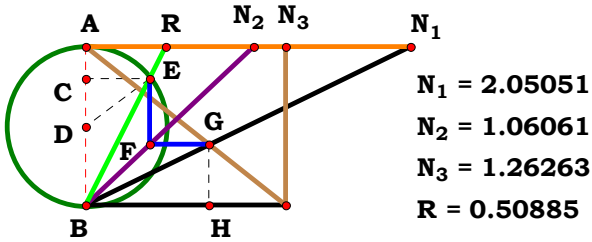
$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$	0, 0, 3:	$\frac{N_u \cdot \sqrt{C^2} \cdot (N_u^2 + 1)}{C \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$
1, 0, 0:	$\frac{N_u \cdot \sqrt{A^2} \cdot (A^2 + N_u^2)}{A \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$	1, 0, 3:	$\frac{N_u \cdot \sqrt{A^2 \cdot C^2} \cdot (A^2 + N_u^2)}{A \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$
0, 2, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$	0, 2, 3:	$\frac{N_u \cdot \sqrt{B^2 \cdot C^2} \cdot (N_u^2 + 1)}{B \cdot C \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$
1, 2, 0:	$\frac{N_u \cdot \sqrt{A^2 \cdot B^2} \cdot (A^2 + N_u^2)}{A \cdot B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$	1, 2, 3:	$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2}}$



Unit. $AB := 1$ Given. $N_1 := 2.05051$ $N_2 := 1.06061$ $N_3 := 1.26263$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot A \cdot N_u^2}{\sqrt{N_u^2 \cdot [B \cdot (A + C) - 2 \cdot A \cdot N_u] \cdot [B \cdot (A + C) + 2 \cdot A \cdot N_u] + B \cdot N_u \cdot (A + C)}} = 0.508856$$

$$Num := \frac{2 \cdot A \cdot N_u^2}{\sqrt{\left(2 \cdot A \cdot N_u^2\right)^2}}$$

$$Den := \frac{\sqrt{N_u^2 \cdot [B \cdot (A + C) - 2 \cdot A \cdot N_u] \cdot [B \cdot (A + C) + 2 \cdot A \cdot N_u] + B \cdot N_u \cdot (A + C)}}{\sqrt{\left[\sqrt{N_u^2 \cdot [B \cdot (A + C) - 2 \cdot A \cdot N_u] \cdot [B \cdot (A + C) + 2 \cdot A \cdot N_u] + B \cdot N_u \cdot (A + C)}\right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{N_u^2 \cdot [B \cdot (A + C) - 2 \cdot A \cdot N_u] \cdot [B \cdot (A + C) + 2 \cdot A \cdot N_u] + B \cdot N_u \cdot (A + C)}\right]^2}}{\sqrt{A^2 \cdot N_u^4 \cdot \left[\sqrt{N_u^2 \cdot [B \cdot (A + C) - 2 \cdot A \cdot N_u] \cdot [B \cdot (A + C) + 2 \cdot A \cdot N_u] + A \cdot B \cdot N_u + B \cdot C \cdot N_u}\right]}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u^2 \cdot \sqrt{\left[2 \cdot N_u + \sqrt{-N_u^2 \cdot (2 \cdot N_u - 2) \cdot (2 \cdot N_u + 2)}\right]^2}}{\sqrt{N_u^4 \cdot \left[2 \cdot N_u + \sqrt{-N_u^2 \cdot (2 \cdot N_u - 2) \cdot (2 \cdot N_u + 2)}\right]}}$$

1, 0, 0:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{N_u^2 \cdot (A - 2 \cdot A \cdot N_u + 1) \cdot (A + 2 \cdot A \cdot N_u + 1)} + N_u \cdot (A + 1)\right]^2}}{\sqrt{A^2 \cdot N_u^4 \cdot \left[N_u + A \cdot N_u + \sqrt{N_u^2 \cdot (A - 2 \cdot A \cdot N_u + 1) \cdot (A + 2 \cdot A \cdot N_u + 1)}\right]}}$$

0, 2, 0:

$$\frac{N_u^2 \cdot \sqrt{\left[2 \cdot B \cdot N_u + \sqrt{N_u^2 \cdot (2 \cdot B - 2 \cdot N_u) \cdot (2 \cdot B + 2 \cdot N_u)}\right]^2}}{\sqrt{N_u^4 \cdot \left[2 \cdot B \cdot N_u + \sqrt{N_u^2 \cdot (2 \cdot B - 2 \cdot N_u) \cdot (2 \cdot B + 2 \cdot N_u)}\right]}}$$

1, 2, 0:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{N_u^2 \cdot [B \cdot (A + 1) - 2 \cdot A \cdot N_u] \cdot [2 \cdot A \cdot N_u + B \cdot (A + 1)]} + B \cdot N_u \cdot (A + 1)\right]^2}}{\sqrt{A^2 \cdot N_u^4 \cdot \left[B \cdot N_u + \sqrt{N_u^2 \cdot [B \cdot (A + 1) - 2 \cdot A \cdot N_u] \cdot [2 \cdot A \cdot N_u + B \cdot (A + 1)]} + A \cdot B \cdot N_u\right]}}$$

0, 0, 3:

$$\frac{N_u^2 \cdot \sqrt{\left[\sqrt{N_u^2 \cdot (C - 2 \cdot N_u + 1) \cdot (C + 2 \cdot N_u + 1)} + N_u \cdot (C + 1)\right]^2}}{\sqrt{N_u^4 \cdot \left[N_u + \sqrt{N_u^2 \cdot (C - 2 \cdot N_u + 1) \cdot (C + 2 \cdot N_u + 1)} + C \cdot N_u\right]}}$$

1, 0, 3:

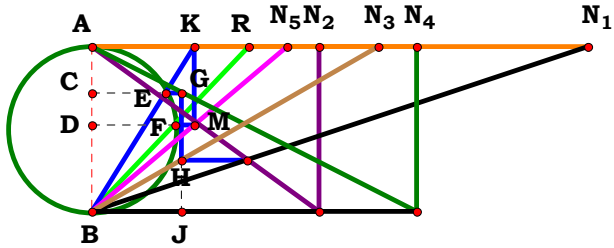
$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{N_u^2 \cdot (A + C - 2 \cdot A \cdot N_u) \cdot (A + C + 2 \cdot A \cdot N_u)} + N_u \cdot (A + C)\right]^2}}{\sqrt{A^2 \cdot N_u^4 \cdot \left[\sqrt{N_u^2 \cdot (A + C - 2 \cdot A \cdot N_u) \cdot (A + C + 2 \cdot A \cdot N_u)} + A \cdot N_u + C \cdot N_u\right]}}$$

0, 2, 3:

$$\frac{N_u^2 \cdot \sqrt{\left[\sqrt{-N_u^2 \cdot [2 \cdot N_u + B \cdot (C + 1)] \cdot [2 \cdot N_u - B \cdot (C + 1)]} + B \cdot N_u \cdot (C + 1)\right]^2}}{\sqrt{N_u^4 \cdot \left[\sqrt{-N_u^2 \cdot [2 \cdot N_u + B \cdot (C + 1)] \cdot [2 \cdot N_u - B \cdot (C + 1)]} + B \cdot N_u + B \cdot C \cdot N_u\right]}}$$

1, 2, 3:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{N_u^2 \cdot [B \cdot (A + C) - 2 \cdot A \cdot N_u] \cdot [B \cdot (A + C) + 2 \cdot A \cdot N_u]} + B \cdot N_u \cdot (A + C)\right]^2}}{\sqrt{A^2 \cdot N_u^4 \cdot \left[\sqrt{N_u^2 \cdot [B \cdot (A + C) - 2 \cdot A \cdot N_u] \cdot [B \cdot (A + C) + 2 \cdot A \cdot N_u]} + A \cdot B \cdot N_u + B \cdot C \cdot N_u\right]}}$$



N₁ = 3.00000
N₂ = 1.37279
N₃ = 1.73589
N₄ = 1.96599
N₅ = 1.17758
R = 0.94950

Unit. **AB** := 1 **Given.** **N₁** := 3 **N₂** := 1.37279 **N₃** := 1.73589

N₄ := 1.96599 **N₅** := 1.17758

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$ **D** := $\frac{N_u}{N_4}$ **E** := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{(A \cdot D)^{\frac{1}{4}} \cdot \sqrt{(A + B) \cdot \left[N_u \cdot \sqrt{A \cdot (C - D)} + B \cdot C - E \cdot \sqrt{A \cdot D} \right] \cdot [A \cdot (C - D) + B \cdot C]} \cdot \sqrt{A \cdot B \cdot D}}{A \cdot D \cdot \sqrt{B \cdot E} \cdot \sqrt{A + B} \cdot \sqrt{A \cdot (C - D)} + B \cdot C} = 0.9495$$

$$Num := \frac{(A \cdot D)^{\frac{1}{4}} \cdot \sqrt{(A + B) \cdot \left[N_u \cdot \sqrt{A \cdot (C - D)} + B \cdot C - E \cdot \sqrt{A \cdot D} \right] \cdot [A \cdot (C - D) + B \cdot C]} \cdot \sqrt{A \cdot B \cdot D}}{\sqrt{\left[(A \cdot D)^{\frac{1}{4}} \cdot \sqrt{(A + B) \cdot \left[N_u \cdot \sqrt{A \cdot (C - D)} + B \cdot C - E \cdot \sqrt{A \cdot D} \right] \cdot [A \cdot (C - D) + B \cdot C]} \cdot \sqrt{A \cdot B \cdot D} \right]^2}}$$

$$Den := \frac{A \cdot D \cdot \sqrt{B \cdot E} \cdot \sqrt{A + B} \cdot \sqrt{A \cdot (C - D)} + B \cdot C}{\sqrt{\left[A \cdot D \cdot \sqrt{B \cdot E} \cdot \sqrt{A + B} \cdot \sqrt{A \cdot (C - D)} + B \cdot C \right]^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$L - \frac{(A \cdot D)^{\frac{1}{4}} \cdot \sqrt{(A + B) \cdot \left[N_u \cdot \sqrt{B \cdot C + A \cdot (C - D)} - E \cdot \sqrt{A \cdot D} \right] \cdot [B \cdot C + A \cdot (C - D)]} \cdot \sqrt{A \cdot B \cdot D} \cdot \sqrt{A^2 \cdot B \cdot D^2 \cdot E \cdot (A + B) \cdot [B \cdot C + A \cdot (C - D)]}}{A \cdot D \cdot \sqrt{B \cdot E} \cdot \sqrt{A + B} \cdot \sqrt{B \cdot C + A \cdot (C - D)} \cdot \sqrt{A \cdot B \cdot D} \cdot \sqrt{A \cdot D \cdot (A + B) \cdot \left[N_u \cdot \sqrt{B \cdot C + A \cdot (C - D)} - E \cdot \sqrt{A \cdot D} \right] \cdot [B \cdot C + A \cdot (C - D)]}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0: 1

$$\frac{\sqrt{\mathbf{A}^2 \cdot (\mathbf{A} + 1)} \cdot \sqrt{(\mathbf{A} + 1) \cdot (\mathbf{N}_{\mathbf{u}} - \sqrt{\mathbf{A}})}}{\mathbf{A}^{\frac{1}{4}} \cdot \sqrt{\mathbf{A} + 1} \cdot \sqrt{\mathbf{A}^{\frac{3}{2}} \cdot (\mathbf{A} + 1) \cdot (\mathbf{N}_{\mathbf{u}} - \sqrt{\mathbf{A}})}}$$

$$\frac{\sqrt{\mathbf{B}^2 \cdot (\mathbf{B} + 1)} \cdot \sqrt{\mathbf{B} \cdot (\mathbf{B} + 1) \cdot (\sqrt{\mathbf{B}} \cdot \mathbf{N}_{\mathbf{u}} - 1)}}{\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{B} + 1} \cdot \sqrt{\mathbf{B}^2 \cdot (\mathbf{B} + 1) \cdot (\sqrt{\mathbf{B}} \cdot \mathbf{N}_{\mathbf{u}} - 1)}}$$

$$\frac{\sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2 \cdot (\mathbf{A} + \mathbf{B})} \cdot \sqrt{-\mathbf{B} \cdot (\sqrt{\mathbf{A}} - \sqrt{\mathbf{B}} \cdot \mathbf{N}_{\mathbf{u}}) \cdot (\mathbf{A} + \mathbf{B})}}{\mathbf{A}^{\frac{3}{4}} \cdot \mathbf{B} \cdot \sqrt{\mathbf{A} + \mathbf{B}} \cdot \sqrt{-\mathbf{A}^{\frac{3}{2}} \cdot \mathbf{B}^2 \cdot (\sqrt{\mathbf{A}} - \sqrt{\mathbf{B}} \cdot \mathbf{N}_{\mathbf{u}}) \cdot (\mathbf{A} + \mathbf{B})}}$$

0, 0, 3, 0, 0: 1

$$\frac{\sqrt{-\left[\sqrt{\mathbf{A}} - \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)}\right] \cdot (\mathbf{A} + 1) \cdot [\mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)]} \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{A} + 1) \cdot [\mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)]}}{\mathbf{A}^{\frac{1}{4}} \cdot \sqrt{\mathbf{A} + 1} \cdot \sqrt{\mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)} \cdot \sqrt{-\mathbf{A}^{\frac{3}{2}} \cdot \left[\sqrt{\mathbf{A}} - \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)}\right] \cdot (\mathbf{A} + 1) \cdot [\mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)]}}$$

$$\frac{\sqrt{\mathbf{B} \cdot (\mathbf{B} + 1) \cdot (\mathbf{C} + \mathbf{B} \cdot \mathbf{C} - 1)} \cdot \sqrt{(\mathbf{B} + 1) \cdot (\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C} + \mathbf{B} \cdot \mathbf{C} - 1} - 1) \cdot (\mathbf{C} + \mathbf{B} \cdot \mathbf{C} - 1)}}{\sqrt{\mathbf{B} + 1} \cdot \sqrt{\mathbf{C} + \mathbf{B} \cdot \mathbf{C} - 1} \cdot \sqrt{\mathbf{B} \cdot (\mathbf{B} + 1) \cdot (\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C} + \mathbf{B} \cdot \mathbf{C} - 1} - 1) \cdot (\mathbf{C} + \mathbf{B} \cdot \mathbf{C} - 1)}}$$

$$\frac{\sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{-[\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)] \cdot (\mathbf{A} + \mathbf{B})} \cdot \left[\sqrt{\mathbf{A}} - \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)}\right] \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{B} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)] \cdot (\mathbf{A} + \mathbf{B})}}{\mathbf{A}^{\frac{3}{4}} \cdot \sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)} \cdot \sqrt{\mathbf{A} + \mathbf{B}} \cdot \sqrt{-\mathbf{A}^{\frac{3}{2}} \cdot \mathbf{B} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)] \cdot (\mathbf{A} + \mathbf{B})} \cdot \left[\sqrt{\mathbf{A}} - \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot (\mathbf{C} - 1)}\right]}$$

0, 0, 0, 4, 0:	$\frac{\sqrt{2} \cdot \sqrt{-D^2 \cdot (D-2)} \cdot \sqrt{(D-2) \cdot (2 \cdot \sqrt{D}-2 \cdot N_u \cdot \sqrt{2-D})}}{2 \cdot D^{\frac{1}{4}} \cdot \sqrt{2-D} \cdot \sqrt{D^{\frac{3}{2}} \cdot (\sqrt{D}-N_u \cdot \sqrt{2-D}) \cdot (D-2)}}$	1, 0, 0, 4, 0:	$\frac{(A \cdot D)^{\frac{3}{4}} \cdot \sqrt{-(A+1) \cdot [A \cdot (D-1)-1]} \cdot [N_u \cdot \sqrt{1-A \cdot (D-1)}-\sqrt{A \cdot D}] \cdot \sqrt{-A^2 \cdot D^2 \cdot (A+1) \cdot [A \cdot (D-1)-1]}}{A \cdot D \cdot \sqrt{A+1} \cdot \sqrt{1-A \cdot (D-1)} \cdot \sqrt{-A \cdot D \cdot (A+1) \cdot [A \cdot (D-1)-1]} \cdot \sqrt{A \cdot D} \cdot [N_u \cdot \sqrt{1-A \cdot (D-1)}-\sqrt{A \cdot D}]}$
0, 2, 0, 4, 0:	$\frac{\sqrt{B \cdot D} \cdot \sqrt{(B+1) \cdot (N_u \cdot \sqrt{B-D+1}-\sqrt{D}) \cdot (B-D+1)} \cdot \sqrt{B \cdot D^2 \cdot (B+1) \cdot (B-D+1)}}{\sqrt{B \cdot D}^{\frac{3}{4}} \cdot \sqrt{B+1} \cdot \sqrt{B-D+1} \cdot \sqrt{B \cdot D^{\frac{3}{2}} \cdot (B+1) \cdot (N_u \cdot \sqrt{B-D+1}-\sqrt{D}) \cdot (B-D+1)}}$		
1, 2, 0, 4, 0:	$\frac{(A \cdot D)^{\frac{1}{4}} \cdot \sqrt{[N_u \cdot \sqrt{B-A \cdot (D-1)}-\sqrt{A \cdot D}] \cdot (A+B) \cdot [B-A \cdot (D-1)]} \cdot \sqrt{A \cdot B \cdot D} \cdot \sqrt{A^2 \cdot B \cdot D^2 \cdot (A+B) \cdot [B-A \cdot (D-1)]}}{A \cdot \sqrt{B \cdot D} \cdot \sqrt{A+B} \cdot \sqrt{B-A \cdot (D-1)} \cdot \sqrt{A \cdot B \cdot D} \cdot [N_u \cdot \sqrt{B-A \cdot (D-1)}-\sqrt{A \cdot D}] \cdot \sqrt{A \cdot D} \cdot (A+B) \cdot [B-A \cdot (D-1)]}$		
0, 0, 3, 4, 0:	$\frac{\sqrt{2} \cdot \sqrt{(2 \cdot \sqrt{D}-2 \cdot N_u \cdot \sqrt{2 \cdot C-D}) \cdot (D-2 \cdot C)} \cdot \sqrt{-D^2 \cdot (D-2 \cdot C)}}{2 \cdot D^{\frac{1}{4}} \cdot \sqrt{2 \cdot C-D} \cdot \sqrt{D^{\frac{3}{2}} \cdot (\sqrt{D}-N_u \cdot \sqrt{2 \cdot C-D}) \cdot (D-2 \cdot C)}}$		
1, 0, 3, 4, 0:	$\frac{(A \cdot D)^{\frac{3}{4}} \cdot \sqrt{(A+1) \cdot [C+A \cdot (C-D)]} \cdot [N_u \cdot \sqrt{C+A \cdot (C-D)}-\sqrt{A \cdot D}] \cdot \sqrt{A^2 \cdot D^2 \cdot (A+1) \cdot [C+A \cdot (C-D)]}}{A \cdot D \cdot \sqrt{A+1} \cdot \sqrt{C+A \cdot (C-D)} \cdot \sqrt{A \cdot D \cdot (A+1) \cdot [C+A \cdot (C-D)]} \cdot \sqrt{A \cdot D} \cdot [N_u \cdot \sqrt{C+A \cdot (C-D)}-\sqrt{A \cdot D}]}$		
0, 2, 3, 4, 0:	$\frac{\sqrt{B \cdot D} \cdot \sqrt{(B+1) \cdot (N_u \cdot \sqrt{C-D+B \cdot C}-\sqrt{D}) \cdot (C-D+B \cdot C)} \cdot \sqrt{B \cdot D^2 \cdot (B+1) \cdot (C-D+B \cdot C)}}{\sqrt{B \cdot D}^{\frac{3}{4}} \cdot \sqrt{B+1} \cdot \sqrt{C-D+B \cdot C} \cdot \sqrt{B \cdot D^{\frac{3}{2}} \cdot (B+1) \cdot (N_u \cdot \sqrt{C-D+B \cdot C}-\sqrt{D}) \cdot (C-D+B \cdot C)}}$		
1, 2, 3, 4, 0:	$\frac{(A \cdot D)^{\frac{1}{4}} \cdot \sqrt{(A+B) \cdot [N_u \cdot \sqrt{B \cdot C+A \cdot (C-D)}-\sqrt{A \cdot D}] \cdot [B \cdot C+A \cdot (C-D)]} \cdot \sqrt{A \cdot B \cdot D} \cdot \sqrt{A^2 \cdot B \cdot D^2 \cdot (A+B) \cdot [B \cdot C+A \cdot (C-D)]}}{A \cdot \sqrt{B \cdot D} \cdot \sqrt{A+B} \cdot \sqrt{B \cdot C+A \cdot (C-D)} \cdot \sqrt{A \cdot B \cdot D} \cdot \sqrt{A \cdot D} \cdot (A+B) \cdot [N_u \cdot \sqrt{B \cdot C+A \cdot (C-D)}-\sqrt{A \cdot D}] \cdot [B \cdot C+A \cdot (C-D)]}$		



0, 0, 0, 0, 5: 1

1, 0, 0, 0, 5:

$$\frac{\sqrt{(A+1) \cdot (N_u - \sqrt{A \cdot E})} \cdot \sqrt{A^2 \cdot E \cdot (A+1)}}{A^{\frac{1}{4}} \cdot \sqrt{E} \cdot \sqrt{A+1} \cdot \sqrt{A^{\frac{3}{2}} \cdot (A+1) \cdot (N_u - \sqrt{A \cdot E})}}$$

0, 2, 0, 0, 5:

$$\frac{\sqrt{-B \cdot (B+1) \cdot (E - \sqrt{B \cdot N_u})} \cdot \sqrt{B^2 \cdot E \cdot (B+1)}}{\sqrt{B+1} \cdot \sqrt{B \cdot E} \cdot \sqrt{-B^2 \cdot (B+1) \cdot (E - \sqrt{B \cdot N_u})}}$$

1, 2, 0, 0, 5:

$$\frac{\sqrt{A \cdot B} \cdot \sqrt{-B \cdot (A+B) \cdot (\sqrt{A \cdot E} - \sqrt{B \cdot N_u})} \cdot \sqrt{A^2 \cdot B^2 \cdot E \cdot (A+B)}}{A^{\frac{3}{4}} \cdot \sqrt{B} \cdot \sqrt{B \cdot E} \cdot \sqrt{A+B} \cdot \sqrt{-A^{\frac{3}{2}} \cdot B^2 \cdot (A+B) \cdot (\sqrt{A \cdot E} - \sqrt{B \cdot N_u})}}$$

0, 0, 3, 0, 5:

$$\frac{\sqrt{E \cdot (2 \cdot C - 1)}}{\sqrt{E} \cdot \sqrt{2 \cdot C - 1}}$$

1, 0, 3, 0, 5:

$$\frac{\sqrt{(A+1) \cdot [C + A \cdot (C-1)]} \cdot [N_u \cdot \sqrt{C + A \cdot (C-1)} - \sqrt{A \cdot E}] \cdot \sqrt{A^2 \cdot E \cdot (A+1) \cdot [C + A \cdot (C-1)]}}{A^{\frac{1}{4}} \cdot \sqrt{E} \cdot \sqrt{A+1} \cdot \sqrt{C + A \cdot (C-1)} \cdot \sqrt{A^{\frac{3}{2}} \cdot (A+1) \cdot [C + A \cdot (C-1)]} \cdot [N_u \cdot \sqrt{C + A \cdot (C-1)} - \sqrt{A \cdot E}]}$$

0, 2, 3, 0, 5:

$$\frac{\sqrt{B} \cdot \sqrt{-(E - N_u \cdot \sqrt{C + B \cdot C - 1}) \cdot (B+1) \cdot (C + B \cdot C - 1)} \cdot \sqrt{B \cdot E \cdot (B+1) \cdot (C + B \cdot C - 1)}}{\sqrt{B+1} \cdot \sqrt{B \cdot E} \cdot \sqrt{C + B \cdot C - 1} \cdot \sqrt{-B \cdot (E - N_u \cdot \sqrt{C + B \cdot C - 1}) \cdot (B+1) \cdot (C + B \cdot C - 1)}}$$

1, 2, 3, 0, 5:

$$\frac{\sqrt{A \cdot B} \cdot \sqrt{[B \cdot C + A \cdot (C-1)]} \cdot [N_u \cdot \sqrt{B \cdot C + A \cdot (C-1)} - \sqrt{A \cdot E}] \cdot (A+B) \cdot \sqrt{A^2 \cdot B \cdot E \cdot [B \cdot C + A \cdot (C-1)] \cdot (A+B)}}{A^{\frac{3}{4}} \cdot \sqrt{B \cdot C + A \cdot (C-1)} \cdot \sqrt{B \cdot E} \cdot \sqrt{A+B} \cdot \sqrt{A^{\frac{3}{2}} \cdot B \cdot [B \cdot C + A \cdot (C-1)]} \cdot [N_u \cdot \sqrt{B \cdot C + A \cdot (C-1)} - \sqrt{A \cdot E}] \cdot (A+B)}$$

0, 0, 0, 4, 5:

$$\frac{\sqrt{2} \cdot \sqrt{-(D-2) \cdot (2 \cdot N_u \cdot \sqrt{2-D} - 2 \cdot \sqrt{D} \cdot E)} \cdot \sqrt{-D^2 \cdot E \cdot (D-2)}}{2 \cdot D^{\frac{1}{4}} \cdot \sqrt{E} \cdot \sqrt{2-D} \cdot \sqrt{-D^{\frac{3}{2}} \cdot (D-2) \cdot (N_u \cdot \sqrt{2-D} - \sqrt{D} \cdot E)}}$$

1, 0, 0, 4, 5:

$$\frac{(A \cdot D)^{\frac{3}{4}} \cdot \sqrt{-[N_u \cdot \sqrt{1-A \cdot (D-1)} - E \cdot \sqrt{A \cdot D}] \cdot (A+1) \cdot [A \cdot (D-1) - 1]} \cdot \sqrt{-A^2 \cdot D^2 \cdot E \cdot (A+1) \cdot [A \cdot (D-1) - 1]}}{A \cdot D \cdot \sqrt{E} \cdot \sqrt{A+1} \cdot \sqrt{1-A \cdot (D-1)} \cdot \sqrt{-A \cdot D \cdot [N_u \cdot \sqrt{1-A \cdot (D-1)} - E \cdot \sqrt{A \cdot D}] \cdot (A+1) \cdot [A \cdot (D-1) - 1]} \cdot \sqrt{A \cdot D}}$$

0, 2, 0, 4, 5:

$$\frac{\sqrt{B \cdot D} \cdot \sqrt{(N_u \cdot \sqrt{B-D+1} - \sqrt{D} \cdot E) \cdot (B+1) \cdot (B-D+1)} \cdot \sqrt{B \cdot D^2 \cdot E \cdot (B+1) \cdot (B-D+1)}}{D^{\frac{3}{4}} \cdot \sqrt{B+1} \cdot \sqrt{B \cdot E} \cdot \sqrt{B-D+1} \cdot \sqrt{B \cdot D^{\frac{3}{2}} \cdot (N_u \cdot \sqrt{B-D+1} - \sqrt{D} \cdot E) \cdot (B+1) \cdot (B-D+1)}}$$

1, 2, 0, 4, 5:

$$\frac{(A \cdot D)^{\frac{1}{4}} \cdot \sqrt{A \cdot B \cdot D} \cdot \sqrt{-[E \cdot \sqrt{A \cdot D} - N_u \cdot \sqrt{B-A \cdot (D-1)}] \cdot (A+B) \cdot [B-A \cdot (D-1)]} \cdot \sqrt{A^2 \cdot B \cdot D^2 \cdot E \cdot (A+B) \cdot [B-A \cdot (D-1)]}}{A \cdot D \cdot \sqrt{B \cdot E} \cdot \sqrt{A+B} \cdot \sqrt{B-A \cdot (D-1)} \cdot \sqrt{-A \cdot B \cdot D \cdot [E \cdot \sqrt{A \cdot D} - N_u \cdot \sqrt{B-A \cdot (D-1)}] \cdot \sqrt{A \cdot D} \cdot (A+B) \cdot [B-A \cdot (D-1)]}}$$

0, 0, 3, 4, 5:

$$\frac{\sqrt{2} \cdot \sqrt{-(2 \cdot N_u \cdot \sqrt{2 \cdot C-D} - 2 \cdot \sqrt{D} \cdot E) \cdot (D-2 \cdot C)} \cdot \sqrt{-D^2 \cdot E \cdot (D-2 \cdot C)}}{2 \cdot D^{\frac{1}{4}} \cdot \sqrt{E} \cdot \sqrt{2 \cdot C-D} \cdot \sqrt{-D^{\frac{3}{2}} \cdot (N_u \cdot \sqrt{2 \cdot C-D} - \sqrt{D} \cdot E) \cdot (D-2 \cdot C)}}$$

1, 0, 3, 4, 5:

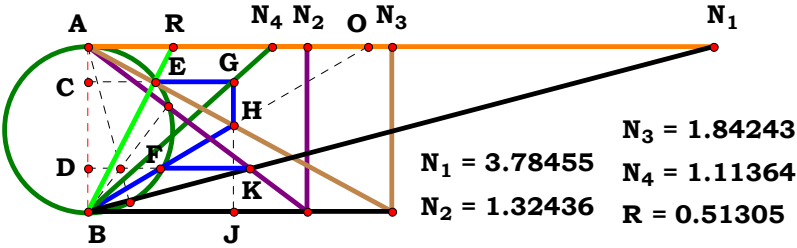
$$\frac{(A \cdot D)^{\frac{3}{4}} \cdot \sqrt{[N_u \cdot \sqrt{C+A \cdot (C-D)} - E \cdot \sqrt{A \cdot D}] \cdot (A+1) \cdot [C+A \cdot (C-D)]} \cdot \sqrt{A^2 \cdot D^2 \cdot E \cdot (A+1) \cdot [C+A \cdot (C-D)]}}{A \cdot D \cdot \sqrt{E} \cdot \sqrt{A+1} \cdot \sqrt{C+A \cdot (C-D)} \cdot \sqrt{A \cdot D \cdot [N_u \cdot \sqrt{C+A \cdot (C-D)} - E \cdot \sqrt{A \cdot D}] \cdot (A+1) \cdot [C+A \cdot (C-D)]} \cdot \sqrt{A \cdot D}}$$

0, 2, 3, 4, 5:

$$\frac{\sqrt{B \cdot D} \cdot \sqrt{(B+1) \cdot (N_u \cdot \sqrt{C-D+B \cdot C} - \sqrt{D} \cdot E) \cdot (C-D+B \cdot C)} \cdot \sqrt{B \cdot D^2 \cdot E \cdot (B+1) \cdot (C-D+B \cdot C)}}{D^{\frac{3}{4}} \cdot \sqrt{B+1} \cdot \sqrt{B \cdot E} \cdot \sqrt{C-D+B \cdot C} \cdot \sqrt{B \cdot D^{\frac{3}{2}} \cdot (B+1) \cdot (N_u \cdot \sqrt{C-D+B \cdot C} - \sqrt{D} \cdot E) \cdot (C-D+B \cdot C)}}$$

1, 2, 3, 4, 5:

$$\frac{(A \cdot D)^{\frac{1}{4}} \cdot \sqrt{(A+B) \cdot [N_u \cdot \sqrt{B \cdot C+A \cdot (C-D)} - E \cdot \sqrt{A \cdot D}] \cdot [B \cdot C+A \cdot (C-D)]} \cdot \sqrt{A \cdot B \cdot D} \cdot \sqrt{A^2 \cdot B \cdot D^2 \cdot E \cdot (A+B) \cdot [B \cdot C+A \cdot (C-D)]}}{A \cdot D \cdot \sqrt{B \cdot E} \cdot \sqrt{A+B} \cdot \sqrt{B \cdot C+A \cdot (C-D)} \cdot \sqrt{A \cdot B \cdot D \cdot \sqrt{A \cdot D} \cdot (A+B) \cdot [N_u \cdot \sqrt{B \cdot C+A \cdot (C-D)} - E \cdot \sqrt{A \cdot D}] \cdot [B \cdot C+A \cdot (C-D)]}}$$



Unit. **AB** := 1 Given. **N₁** := 3.78455 **N₂** := 1.32436 **N₃** := 1.84243

N₄ := 1.11364

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$ **D** := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{(A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot N_u + \sqrt{A \cdot B} \cdot (C - D)}}{\sqrt{B} \cdot \sqrt{A \cdot D}} = 0.513051$$

$$Num := \frac{(A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot N_u + \sqrt{A \cdot B} \cdot (C - D)}}{\sqrt{\left[(A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot N_u + \sqrt{A \cdot B} \cdot (C - D)} \right]^2}}$$

$$Den := \frac{\sqrt{B} \cdot \sqrt{A \cdot D}}{\sqrt{(\sqrt{B} \cdot \sqrt{A \cdot D})^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$L - \frac{\sqrt{A \cdot N_u + \sqrt{A \cdot B} \cdot (C - D)} \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{A \cdot B \cdot D}}{\sqrt{B} \cdot \sqrt{\left[A \cdot N_u + \sqrt{A \cdot B} \cdot (C - D) \right]} \cdot \sqrt{A \cdot B} \cdot \sqrt{A \cdot D}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 1

1, 0, 0, 0:
$$\frac{\sqrt{\sqrt{\mathbf{A}}}\cdot\sqrt{\mathbf{A}\cdot\mathbf{N_u}}}{\sqrt{\sqrt{\mathbf{A}^2}\cdot\mathbf{N_u}}}$$

0, 2, 0, 0:
$$\frac{\sqrt{\sqrt{\mathbf{B}}}\cdot\sqrt{\mathbf{N_u}}}{\sqrt{\sqrt{\mathbf{B}}\cdot\mathbf{N_u}}}$$

1, 2, 0, 0:
$$\frac{(\mathbf{A}\cdot\mathbf{B})^{\frac{3}{4}}\cdot\sqrt{\mathbf{A}\cdot\mathbf{N_u}}}{\sqrt{\sqrt{\mathbf{A}}\cdot\sqrt{\mathbf{B}}}\cdot\sqrt{\mathbf{A}\cdot\mathbf{N_u}}\cdot\sqrt{\mathbf{A}\cdot\mathbf{B}}}$$

0, 0, 3, 0: 1

1, 0, 3, 0:
$$\frac{\sqrt{\sqrt{\mathbf{A}}}\cdot\sqrt{\sqrt{\mathbf{A}}\cdot(\mathbf{C}-1)+\mathbf{A}\cdot\mathbf{N_u}}}{\sqrt{\sqrt{\mathbf{A}}}\cdot\left[\sqrt{\mathbf{A}}\cdot(\mathbf{C}-1)+\mathbf{A}\cdot\mathbf{N_u}\right]}$$

0, 2, 3, 0:
$$\frac{\sqrt{\sqrt{\mathbf{B}}}\cdot\sqrt{\mathbf{N_u}+\sqrt{\mathbf{B}}\cdot(\mathbf{C}-1)}}{\sqrt{\sqrt{\mathbf{B}}}\cdot\left[\mathbf{N_u}+\sqrt{\mathbf{B}}\cdot(\mathbf{C}-1)\right]}$$

1, 2, 3, 0:
$$\frac{(\mathbf{A}\cdot\mathbf{B})^{\frac{3}{4}}\cdot\sqrt{(\mathbf{C}-1)\cdot\sqrt{\mathbf{A}\cdot\mathbf{B}}+\mathbf{A}\cdot\mathbf{N_u}}}{\sqrt{\sqrt{\mathbf{A}}\cdot\sqrt{\mathbf{B}}}\cdot\sqrt{\sqrt{\mathbf{A}\cdot\mathbf{B}}}\cdot\left[(\mathbf{C}-1)\cdot\sqrt{\mathbf{A}\cdot\mathbf{B}}+\mathbf{A}\cdot\mathbf{N_u}\right]}$$

0, 0, 0, 4: 1

1, 0, 0, 4:
$$\frac{\sqrt{\sqrt{\mathbf{A}}}\cdot\sqrt{\mathbf{A}\cdot\mathbf{N_u}-\sqrt{\mathbf{A}}\cdot(\mathbf{D}-1)}}{\sqrt{-\sqrt{\mathbf{A}}}\cdot\left[\sqrt{\mathbf{A}}\cdot(\mathbf{D}-1)-\mathbf{A}\cdot\mathbf{N_u}\right]}$$

0, 2, 0, 4:
$$\frac{\sqrt{\mathbf{N_u}-\sqrt{\mathbf{B}}\cdot(\mathbf{D}-1)}\cdot\sqrt{\mathbf{B}\cdot\mathbf{D}}}{\sqrt{\sqrt{\mathbf{B}}}\cdot\sqrt{\mathbf{D}}\cdot\sqrt{\sqrt{\mathbf{B}}}\cdot\left[\mathbf{N_u}-\sqrt{\mathbf{B}}\cdot(\mathbf{D}-1)\right]}$$

1, 2, 0, 4:
$$\frac{\sqrt{\sqrt{\mathbf{A}\cdot\mathbf{B}}}\cdot\sqrt{\mathbf{A}\cdot\mathbf{N_u}-(\mathbf{D}-1)}\cdot\sqrt{\sqrt{\mathbf{A}\cdot\mathbf{B}}}\cdot\sqrt{\mathbf{A}\cdot\mathbf{B}\cdot\mathbf{D}}}{\sqrt{\sqrt{\mathbf{B}}}\cdot\sqrt{-\sqrt{\mathbf{A}\cdot\mathbf{B}}}\cdot\left[(\mathbf{D}-1)\cdot\sqrt{\mathbf{A}\cdot\mathbf{B}}-\mathbf{A}\cdot\mathbf{N_u}\right]}\cdot\sqrt{\mathbf{A}\cdot\mathbf{D}}}$$

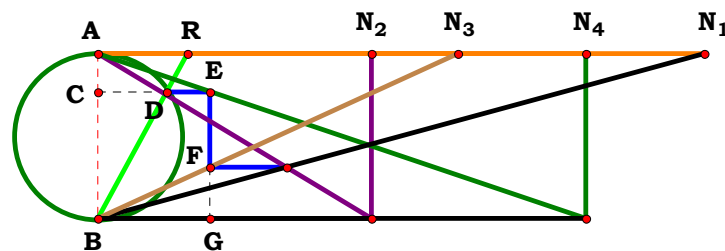
0, 0, 3, 4: 1

1, 0, 3, 4:
$$\frac{\sqrt{\sqrt{\mathbf{A}}}\cdot\sqrt{\sqrt{\mathbf{A}}\cdot(\mathbf{C}-\mathbf{D})+\mathbf{A}\cdot\mathbf{N_u}}}{\sqrt{\sqrt{\mathbf{A}}}\cdot\left[\sqrt{\mathbf{A}}\cdot(\mathbf{C}-\mathbf{D})+\mathbf{A}\cdot\mathbf{N_u}\right]}$$

0, 2, 3, 4:
$$\frac{\sqrt{\mathbf{B}\cdot\mathbf{D}}\cdot\sqrt{\mathbf{N_u}+\sqrt{\mathbf{B}}\cdot(\mathbf{C}-\mathbf{D})}}{\sqrt{\sqrt{\mathbf{B}}}\cdot\sqrt{\mathbf{D}}\cdot\sqrt{\sqrt{\mathbf{B}}}\cdot\left[\mathbf{N_u}+\sqrt{\mathbf{B}}\cdot(\mathbf{C}-\mathbf{D})\right]}$$

1, 2, 3, 4:
$$\frac{\sqrt{\mathbf{A}\cdot\mathbf{N_u}+\sqrt{\mathbf{A}\cdot\mathbf{B}}\cdot(\mathbf{C}-\mathbf{D})}\cdot\sqrt{\sqrt{\mathbf{A}\cdot\mathbf{B}}}\cdot\sqrt{\mathbf{A}\cdot\mathbf{B}\cdot\mathbf{D}}}{\sqrt{\sqrt{\mathbf{B}}}\cdot\sqrt{\left[\mathbf{A}\cdot\mathbf{N_u}+\sqrt{\mathbf{A}\cdot\mathbf{B}}\cdot(\mathbf{C}-\mathbf{D})\right]}\cdot\sqrt{\sqrt{\mathbf{A}\cdot\mathbf{B}}}\cdot\sqrt{\mathbf{A}\cdot\mathbf{D}}}$$

2SMT6R3



N₁ = 3.66832
N₂ = 1.65368
N₃ = 2.18144
N₄ = 2.95394
R = 0.54571

Unit. AB := 1 Given. $N_1 := 3.66832$ $N_2 := 1.65368$ $N_3 := 2.18144$
$$N_4 := 2.95394$$
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{D}}{\sqrt{\mathbf{A} \cdot \mathbf{D}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C}}} = \mathbf{0.545712} \quad \mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{D}}{\sqrt{(\mathbf{A} \cdot \mathbf{D})^2}} \quad \mathbf{Den} := \frac{\sqrt{\mathbf{A} \cdot \mathbf{D}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C}}}{\sqrt{(\sqrt{\mathbf{A} \cdot \mathbf{D}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C}})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

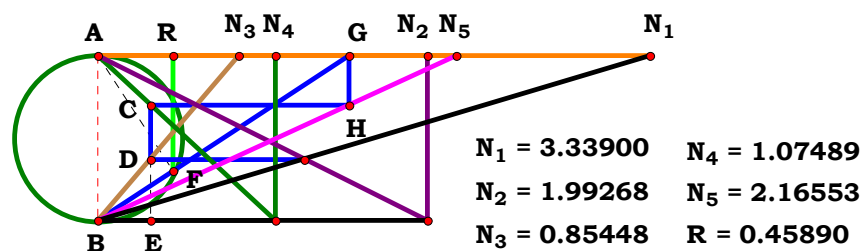
Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot D \cdot \sqrt{A \cdot D \cdot (A \cdot C - A \cdot D + B \cdot C)}}{\sqrt{A^2 \cdot D^2} \cdot \sqrt{A \cdot D} \cdot \sqrt{A \cdot C - A \cdot D + B \cdot C}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	1	0, 0, 0, 4:	$\frac{\sqrt{\mathbf{D}} \cdot \sqrt{-\mathbf{D} \cdot (\mathbf{D} - 2)}}{\sqrt{2 - \mathbf{D}} \cdot \sqrt{\mathbf{D}^2}}$
1, 0, 0, 0:	$\frac{\mathbf{A}}{\sqrt{\mathbf{A}^2}}$	1, 0, 0, 4:	$\frac{\mathbf{A} \cdot \mathbf{D} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{A} \cdot \mathbf{D} + 1)}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D}} \cdot \sqrt{\mathbf{A} - \mathbf{A} \cdot \mathbf{D} + 1}}$
0, 2, 0, 0:	1	0, 2, 0, 4:	$\frac{\sqrt{\mathbf{D}} \cdot \sqrt{\mathbf{D} \cdot (\mathbf{B} - \mathbf{D} + 1)}}{\sqrt{\mathbf{D}^2} \cdot \sqrt{\mathbf{B} - \mathbf{D} + 1}}$
1, 2, 0, 0:	$\frac{\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}{\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{A}^2}}$	1, 2, 0, 4:	$\frac{\mathbf{A} \cdot \mathbf{D} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B} - \mathbf{A} \cdot \mathbf{D})}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D}} \cdot \sqrt{\mathbf{A} + \mathbf{B} - \mathbf{A} \cdot \mathbf{D}}}$
0, 0, 3, 0:	1	0, 0, 3, 4:	$\frac{\sqrt{\mathbf{D}} \cdot \sqrt{-\mathbf{D} \cdot (\mathbf{D} - 2 \cdot \mathbf{C})}}{\sqrt{\mathbf{D}^2} \cdot \sqrt{2 \cdot \mathbf{C} - \mathbf{D}}}$
1, 0, 3, 0:	$\frac{\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot (\mathbf{C} - \mathbf{A} + \mathbf{A} \cdot \mathbf{C})}}{\sqrt{\mathbf{A}^2} \cdot \sqrt{\mathbf{C} - \mathbf{A} + \mathbf{A} \cdot \mathbf{C}}}$	1, 0, 3, 4:	$\frac{\mathbf{A} \cdot \mathbf{D} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{C} + \mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D})}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D}} \cdot \sqrt{\mathbf{C} + \mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D}}}$
0, 2, 3, 0:	1	0, 2, 3, 4:	$\frac{\sqrt{\mathbf{D}} \cdot \sqrt{\mathbf{D} \cdot (\mathbf{C} - \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}}{\sqrt{\mathbf{D}^2} \cdot \sqrt{\mathbf{C} - \mathbf{D} + \mathbf{B} \cdot \mathbf{C}}}$
1, 2, 3, 0:	$\frac{\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} + \mathbf{B} \cdot \mathbf{C})}}{\sqrt{\mathbf{A}^2} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C} - \mathbf{A} + \mathbf{B} \cdot \mathbf{C}}}$	1, 2, 3, 4:	$\frac{\mathbf{A} \cdot \mathbf{D} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C}}}$


$$N_4 := 1.07489 \quad N_5 := 2.16553$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$

Descriptions.

$$\frac{\mathbf{C} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}{\mathbf{C}^2 \cdot (\mathbf{E}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})^2 - 2 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2} = 0.458903$$

$$\mathbf{Num} := \frac{\mathbf{C} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}{\sqrt{[\mathbf{C} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})]^2}}$$

$$\text{Den} := \frac{\mathbf{C}^2 \cdot (\mathbf{E}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})^2 - 2 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}{\sqrt{\left[\mathbf{C}^2 \cdot (\mathbf{E}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})^2 - 2 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{C} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot \sqrt{\left[\mathbf{C}^2 \cdot (\mathbf{E}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) \right]^2} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}{\left[\mathbf{A}^2 \cdot \mathbf{C} \cdot (\mathbf{C} \cdot \mathbf{E}^2 + \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2) + \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{C} \cdot \mathbf{E}^2 + \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2) + \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{E}^2 + \mathbf{N}_{\mathbf{u}}^2) \right] \cdot \sqrt{\mathbf{C}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(N_u^2 + 4)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + 4)}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot (A + 1) \cdot \sqrt{\left[(A + 1)^2 \cdot (N_u^2 + 1) + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 \cdot (A + 1) \right]^2}}{\sqrt{N_u^2 \cdot (A + 1)^2 \cdot \left[2 \cdot A + N_u^2 + A^2 \cdot N_u^2 - A^2 \cdot (N_u^2 - 1) + 1 \right]}}$
0, 2, 0, 0, 0:	$\frac{B \cdot N_u \cdot (B + 1) \cdot \sqrt{\left[N_u^2 + (B + 1)^2 \cdot (N_u^2 + 1) - 2 \cdot N_u^2 \cdot (B + 1) \right]^2}}{\left[(N_u^2 + 1) \cdot B^2 + 2 \cdot B + 1 \right] \cdot \sqrt{B^2 \cdot N_u^2 \cdot (B + 1)^2}}$
1, 2, 0, 0, 0:	$\frac{B \cdot N_u \cdot (A + B) \cdot \sqrt{\left[A^2 \cdot N_u^2 + (A + B)^2 \cdot (N_u^2 + 1) - 2 \cdot A \cdot N_u^2 \cdot (A + B) \right]^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (A + B)^2 \cdot \left[A^2 \cdot N_u^2 + 2 \cdot A \cdot B - A^2 \cdot (N_u^2 - 1) + B^2 \cdot (N_u^2 + 1) \right]}}$
0, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot \sqrt{\left[N_u^2 + 4 \cdot C^2 \cdot (N_u^2 + 1) - 4 \cdot C \cdot N_u^2 \right]^2} \cdot (2 \cdot C - 1)}{\sqrt{C^2 \cdot N_u^2 \cdot (2 \cdot C - 1)^2 \cdot \left[N_u^2 + 2 \cdot C \cdot (C - N_u^2 + C \cdot N_u^2) + C \cdot (C - 2 \cdot N_u^2 + C \cdot N_u^2) + C^2 \cdot (N_u^2 + 1) \right]}}$
1, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot (A + 1) \cdot \sqrt{\left[A^2 \cdot N_u^2 + C^2 \cdot (A + 1)^2 \cdot (N_u^2 + 1) - 2 \cdot A \cdot C \cdot N_u^2 \cdot (A + 1) \right]^2} \cdot (C - A + A \cdot C)}{\left[A^2 \cdot N_u^2 + C^2 \cdot (N_u^2 + 1) + A^2 \cdot C \cdot (C - 2 \cdot N_u^2 + C \cdot N_u^2) + 2 \cdot A \cdot C \cdot (C - N_u^2 + C \cdot N_u^2) \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + 1)^2 \cdot (C - A + A \cdot C)^2}}$
0, 2, 3, 0, 0:	$\frac{C \cdot N_u \cdot (B + 1) \cdot \sqrt{\left[N_u^2 + C^2 \cdot (B + 1)^2 \cdot (N_u^2 + 1) - 2 \cdot C \cdot N_u^2 \cdot (B + 1) \right]^2} \cdot (C + B \cdot C - 1)}{\left[N_u^2 + C \cdot (C - 2 \cdot N_u^2 + C \cdot N_u^2) + B^2 \cdot C^2 \cdot (N_u^2 + 1) + 2 \cdot B \cdot C \cdot (C - N_u^2 + C \cdot N_u^2) \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B + 1)^2 \cdot (C + B \cdot C - 1)^2}}$
1, 2, 3, 0, 0:	$\frac{C \cdot N_u \cdot (A + B) \cdot \sqrt{\left[A^2 \cdot N_u^2 + C^2 \cdot (A + B)^2 \cdot (N_u^2 + 1) - 2 \cdot A \cdot C \cdot N_u^2 \cdot (A + B) \right]^2} \cdot (A \cdot C - A + B \cdot C)}{\left[A^2 \cdot N_u^2 + A^2 \cdot C \cdot (C - 2 \cdot N_u^2 + C \cdot N_u^2) + B^2 \cdot C^2 \cdot (N_u^2 + 1) + 2 \cdot A \cdot B \cdot C \cdot (C - N_u^2 + C \cdot N_u^2) \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + B)^2 \cdot (A \cdot C - A + B \cdot C)^2}}$

$$0, 0, 0, 4, 0: \frac{N_u \cdot \sqrt{\left(D^2 \cdot N_u^2 - 4 \cdot D \cdot N_u^2 + 4 \cdot N_u^2 + 4\right)^2 \cdot (D - 2)}}{\sqrt{N_u^2 \cdot (D - 2)^2 \cdot \left(D^2 \cdot N_u^2 - 4 \cdot D \cdot N_u^2 + 4 \cdot N_u^2 + 4\right)}}$$

$$1, 0, 0, 4, 0: \frac{N_u \cdot (A + 1) \cdot \sqrt{\left[(A + 1)^2 \cdot (N_u^2 + 1) + A^2 \cdot D^2 \cdot N_u^2 - 2 \cdot A \cdot D \cdot N_u^2 \cdot (A + 1)\right]^2 \cdot (A - A \cdot D + 1)}}{\sqrt{N_u^2 \cdot (A + 1)^2 \cdot (A - A \cdot D + 1)^2 \cdot \left[N_u^2 + A^2 \cdot (N_u^2 - 2 \cdot D \cdot N_u^2 + 1) + 2 \cdot A \cdot (N_u^2 - D \cdot N_u^2 + 1) + A^2 \cdot D^2 \cdot N_u^2 + 1\right]}}$$

$$0, 2, 0, 4, 0: \frac{N_u \cdot (B + 1) \cdot \sqrt{\left[(B + 1)^2 \cdot (N_u^2 + 1) + D^2 \cdot N_u^2 - 2 \cdot D \cdot N_u^2 \cdot (B + 1)\right]^2 \cdot (B - D + 1)}}{\sqrt{N_u^2 \cdot (B + 1)^2 \cdot (B - D + 1)^2 \cdot \left[N_u^2 + D^2 \cdot N_u^2 + 2 \cdot B \cdot (N_u^2 - D \cdot N_u^2 + 1) + B^2 \cdot (N_u^2 + 1) - 2 \cdot D \cdot N_u^2 + 1\right]}}$$

$$1, 2, 0, 4, 0: \frac{N_u \cdot (A + B) \cdot \sqrt{\left[(A + B)^2 \cdot (N_u^2 + 1) + A^2 \cdot D^2 \cdot N_u^2 - 2 \cdot A \cdot D \cdot N_u^2 \cdot (A + B)\right]^2 \cdot (A + B - A \cdot D)}}{\sqrt{N_u^2 \cdot (A + B)^2 \cdot (A + B - A \cdot D)^2 \cdot \left[A^2 \cdot (N_u^2 - 2 \cdot D \cdot N_u^2 + 1) + B^2 \cdot (N_u^2 + 1) + 2 \cdot A \cdot B \cdot (N_u^2 - D \cdot N_u^2 + 1) + A^2 \cdot D^2 \cdot N_u^2\right]}}$$

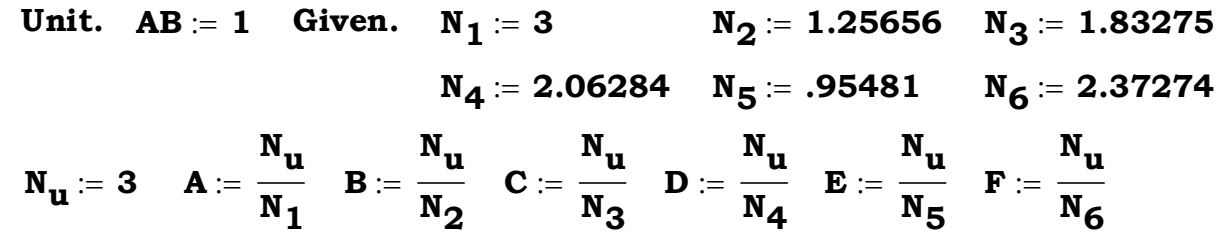
$$0, 0, 3, 4, 0: \frac{C \cdot N_u \cdot \sqrt{\left[D^2 \cdot N_u^2 + 4 \cdot C^2 \cdot (N_u^2 + 1) - 4 \cdot C \cdot D \cdot N_u^2\right]^2 \cdot (D - 2 \cdot C)}}{\sqrt{C^2 \cdot N_u^2 \cdot (D - 2 \cdot C)^2 \cdot \left[D^2 \cdot N_u^2 + 2 \cdot C \cdot (C + C \cdot N_u^2 - D \cdot N_u^2) + C \cdot (C + C \cdot N_u^2 - 2 \cdot D \cdot N_u^2) + C^2 \cdot (N_u^2 + 1)\right]}}$$

$$1, 0, 3, 4, 0: \frac{C \cdot N_u \cdot (A + 1) \cdot \sqrt{\left[C^2 \cdot (A + 1)^2 \cdot (N_u^2 + 1) + A^2 \cdot D^2 \cdot N_u^2 - 2 \cdot A \cdot C \cdot D \cdot N_u^2 \cdot (A + 1)\right]^2 \cdot (C + A \cdot C - A \cdot D)}}{\left[C^2 \cdot (N_u^2 + 1) + 2 \cdot A \cdot C \cdot (C + C \cdot N_u^2 - D \cdot N_u^2) + A^2 \cdot D^2 \cdot N_u^2 + A^2 \cdot C \cdot (C + C \cdot N_u^2 - 2 \cdot D \cdot N_u^2)\right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + 1)^2 \cdot (C + A \cdot C - A \cdot D)^2}}$$

$$0, 2, 3, 4, 0: \frac{C \cdot N_u \cdot (B + 1) \cdot \sqrt{\left[D^2 \cdot N_u^2 + C^2 \cdot (B + 1)^2 \cdot (N_u^2 + 1) - 2 \cdot C \cdot D \cdot N_u^2 \cdot (B + 1)\right]^2 \cdot (C - D + B \cdot C)}}{\sqrt{C^2 \cdot N_u^2 \cdot (B + 1)^2 \cdot (C - D + B \cdot C)^2 \cdot \left[D^2 \cdot N_u^2 + C \cdot (C + C \cdot N_u^2 - 2 \cdot D \cdot N_u^2) + 2 \cdot B \cdot C \cdot (C + C \cdot N_u^2 - D \cdot N_u^2) + B^2 \cdot C^2 \cdot (N_u^2 + 1)\right]}}$$

$$1, 2, 3, 4, 0: \frac{C \cdot N_u \cdot (A + B) \cdot \sqrt{\left[A^2 \cdot D^2 \cdot N_u^2 + C^2 \cdot (A + B)^2 \cdot (N_u^2 + 1) - 2 \cdot A \cdot C \cdot D \cdot N_u^2 \cdot (A + B)\right]^2 \cdot (A \cdot C - A \cdot D + B \cdot C)}}{\left[A^2 \cdot D^2 \cdot N_u^2 + A^2 \cdot C \cdot (C + C \cdot N_u^2 - 2 \cdot D \cdot N_u^2) + B^2 \cdot C^2 \cdot (N_u^2 + 1) + 2 \cdot A \cdot B \cdot C \cdot (C + C \cdot N_u^2 - D \cdot N_u^2)\right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + B)^2 \cdot (A \cdot C - A \cdot D + B \cdot C)^2}}$$

Descriptions.



Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{E} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}}{\mathbf{F} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}} = 0$$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0:	1	0, 0, 0, 4, 0, 0:	$\frac{D}{\sqrt{D^2}}$	0, 0, 0, 0, 5, 0:	$\frac{E}{\sqrt{E^2}}$	0, 0, 0, 4, 5, 0:	$\frac{D \cdot E}{\sqrt{D^2 \cdot E^2}}$
1, 0, 0, 0, 0, 0:	$\frac{A}{\sqrt{A^2}}$	1, 0, 0, 4, 0, 0:	$\frac{A \cdot D}{\sqrt{A^2 \cdot D^2}}$	1, 0, 0, 0, 5, 0:	$\frac{A \cdot E}{\sqrt{A^2 \cdot E^2}}$	1, 0, 0, 4, 5, 0:	$\frac{A \cdot D \cdot E}{\sqrt{A^2 \cdot D^2 \cdot E^2}}$
0, 2, 0, 0, 0, 0:	1	0, 2, 0, 4, 0, 0:	$\frac{D}{\sqrt{D^2}}$	0, 2, 0, 0, 5, 0:	$\frac{E}{\sqrt{E^2}}$	0, 2, 0, 4, 5, 0:	$\frac{D \cdot E}{\sqrt{D^2 \cdot E^2}}$
1, 2, 0, 0, 0, 0:	$\frac{A}{\sqrt{A^2}}$	1, 2, 0, 4, 0, 0:	$\frac{A \cdot D}{\sqrt{A^2 \cdot D^2}}$	1, 2, 0, 0, 5, 0:	$\frac{A \cdot E}{\sqrt{A^2 \cdot E^2}}$	1, 2, 0, 4, 5, 0:	$\frac{A \cdot D \cdot E}{\sqrt{A^2 \cdot D^2 \cdot E^2}}$
0, 0, 3, 0, 0, 0:	1	0, 0, 3, 4, 0, 0:	$\frac{D}{\sqrt{D^2}}$	0, 0, 3, 0, 5, 0:	$\frac{E}{\sqrt{E^2}}$	0, 0, 3, 4, 5, 0:	$\frac{D \cdot E}{\sqrt{D^2 \cdot E^2}}$
1, 0, 3, 0, 0, 0:	$\frac{A}{\sqrt{A^2}}$	1, 0, 3, 4, 0, 0:	$\frac{A \cdot D}{\sqrt{A^2 \cdot D^2}}$	1, 0, 3, 0, 5, 0:	$\frac{A \cdot E}{\sqrt{A^2 \cdot E^2}}$	1, 0, 3, 4, 5, 0:	$\frac{A \cdot D \cdot E}{\sqrt{A^2 \cdot D^2 \cdot E^2}}$
0, 2, 3, 0, 0, 0:	1	0, 2, 3, 4, 0, 0:	$\frac{D}{\sqrt{D^2}}$	0, 2, 3, 0, 5, 0:	$\frac{E}{\sqrt{E^2}}$	0, 2, 3, 4, 5, 0:	$\frac{D \cdot E}{\sqrt{D^2 \cdot E^2}}$
1, 2, 3, 0, 0, 0:	$\frac{A}{\sqrt{A^2}}$	1, 2, 3, 4, 0, 0:	$\frac{A \cdot D}{\sqrt{A^2 \cdot D^2}}$	1, 2, 3, 0, 5, 0:	$\frac{A \cdot E}{\sqrt{A^2 \cdot E^2}}$	1, 2, 3, 4, 5, 0:	$\frac{A \cdot D \cdot E}{\sqrt{A^2 \cdot D^2 \cdot E^2}}$



0, 0, 0, 0, 0, 6: $\frac{\sqrt{\mathbf{F}^2}}{\mathbf{F}}$

1, 0, 0, 0, 0, 6: $\frac{\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{F}^2}}{\mathbf{F} \cdot \sqrt{\mathbf{A}^2}}$

0, 2, 0, 0, 0, 6: $\frac{\sqrt{\mathbf{B} \cdot \mathbf{F}^2}}{\sqrt{\mathbf{B} \cdot \mathbf{F}}}$

1, 2, 0, 0, 0, 6: $\frac{\sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{F}^2}}{\mathbf{B} \cdot \mathbf{F} \cdot \sqrt{\mathbf{A}^2}}$

0, 0, 3, 0, 0, 6: $\frac{\sqrt{\mathbf{F}^2 \cdot (2 \cdot \mathbf{C} - 1)}}{\mathbf{F} \cdot \sqrt{2 \cdot \mathbf{C} - 1}}$

1, 0, 3, 0, 0, 6: $\frac{\sqrt{\mathbf{A} \cdot (\mathbf{C} - \mathbf{A} + \mathbf{A} \cdot \mathbf{C})} \cdot \sqrt{\mathbf{A} \cdot \mathbf{F}^2 \cdot (\mathbf{C} - \mathbf{A} + \mathbf{A} \cdot \mathbf{C})}}{\mathbf{F} \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{C} - \mathbf{A} + \mathbf{A} \cdot \mathbf{C})}}$

0, 2, 3, 0, 0, 6: $\frac{\sqrt{\mathbf{F}^2 \cdot (\mathbf{C} + \mathbf{B} \cdot \mathbf{C} - 1)}}{\mathbf{F} \cdot \sqrt{\mathbf{C} + \mathbf{B} \cdot \mathbf{C} - 1}}$

1, 2, 3, 0, 0, 6: $\frac{\sqrt{\mathbf{A} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} + \mathbf{B} \cdot \mathbf{C})} \cdot \sqrt{\mathbf{A} \cdot \mathbf{F}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} + \mathbf{B} \cdot \mathbf{C})}}{\mathbf{F} \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} + \mathbf{B} \cdot \mathbf{C})}}$

0, 0, 0, 4, 0, 6: $\frac{-\sqrt{-\mathbf{D} \cdot (\mathbf{D} - 2)} \cdot \sqrt{-\mathbf{D} \cdot \mathbf{F}^2 \cdot (\mathbf{D} - 2)}}{\mathbf{F} \cdot (\mathbf{D} - 2) \cdot \sqrt{\mathbf{D}^2}}$

1, 0, 0, 4, 0, 6: $\frac{\sqrt{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{A} \cdot \mathbf{D} + 1)} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F}^2 \cdot (\mathbf{A} - \mathbf{A} \cdot \mathbf{D} + 1)}}{\mathbf{F} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{A} - \mathbf{A} \cdot \mathbf{D} + 1)}}$

0, 2, 0, 4, 0, 6: $\frac{\sqrt{\mathbf{D} \cdot (\mathbf{B} - \mathbf{D} + 1)} \cdot \sqrt{\mathbf{D} \cdot \mathbf{F}^2 \cdot (\mathbf{B} - \mathbf{D} + 1)}}{\mathbf{F} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{B} - \mathbf{D} + 1)}}$

1, 2, 0, 4, 0, 6: $\frac{\sqrt{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B} - \mathbf{A} \cdot \mathbf{D})} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F}^2 \cdot (\mathbf{A} + \mathbf{B} - \mathbf{A} \cdot \mathbf{D})}}{\mathbf{F} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{A} + \mathbf{B} - \mathbf{A} \cdot \mathbf{D})}}$

0, 0, 3, 4, 0, 6: $\frac{-\sqrt{-\mathbf{D} \cdot (\mathbf{D} - 2 \cdot \mathbf{C})} \cdot \sqrt{-\mathbf{D} \cdot \mathbf{F}^2 \cdot (\mathbf{D} - 2 \cdot \mathbf{C})}}{\mathbf{F} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{D} - 2 \cdot \mathbf{C})}}$

1, 0, 3, 4, 0, 6: $\frac{\sqrt{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{C} + \mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D})} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F}^2 \cdot (\mathbf{C} + \mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D})}}{\mathbf{F} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{C} + \mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D})}}$

0, 2, 3, 4, 0, 6: $\frac{\sqrt{\mathbf{D} \cdot (\mathbf{C} - \mathbf{D} + \mathbf{B} \cdot \mathbf{C})} \cdot \sqrt{\mathbf{D} \cdot \mathbf{F}^2 \cdot (\mathbf{C} - \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}}{\mathbf{F} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}}$

1, 2, 3, 4, 0, 6: $\frac{\sqrt{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})} \cdot \sqrt{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{F}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}}{\mathbf{F} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{D} + \mathbf{B} \cdot \mathbf{C})}}$



0, 0, 0, 0, 5, 6:

$$\frac{E \cdot \sqrt{F^2}}{F \cdot \sqrt{E^2}}$$

1, 0, 0, 0, 5, 6:

$$\frac{\sqrt{A \cdot E} \cdot \sqrt{A \cdot F^2}}{F \cdot \sqrt{A^2 \cdot E^2}}$$

0, 2, 0, 0, 5, 6:

$$\frac{E \cdot \sqrt{B \cdot F^2}}{\sqrt{B \cdot F} \cdot \sqrt{E^2}}$$

1, 2, 0, 0, 5, 6:

$$\frac{E \cdot \sqrt{A \cdot B} \cdot \sqrt{A \cdot B \cdot F^2}}{B \cdot F \cdot \sqrt{A^2 \cdot E^2}}$$

0, 0, 3, 0, 5, 6:

$$\frac{E \cdot \sqrt{F^2 \cdot (2 \cdot C - 1)}}{F \cdot \sqrt{E^2} \cdot \sqrt{2 \cdot C - 1}}$$

1, 0, 3, 0, 5, 6:

$$\frac{E \cdot \sqrt{A \cdot (C - A + A \cdot C)} \cdot \sqrt{A \cdot F^2 \cdot (C - A + A \cdot C)}}{F \cdot \sqrt{A^2 \cdot E^2 \cdot (C - A + A \cdot C)}}$$

0, 2, 3, 0, 5, 6:

$$\frac{E \cdot \sqrt{F^2 \cdot (C + B \cdot C - 1)}}{F \cdot \sqrt{E^2} \cdot \sqrt{C + B \cdot C - 1}}$$

1, 2, 3, 0, 5, 6:

$$\frac{E \cdot \sqrt{A \cdot (A \cdot C - A + B \cdot C)} \cdot \sqrt{A \cdot F^2 \cdot (A \cdot C - A + B \cdot C)}}{F \cdot \sqrt{A^2 \cdot E^2 \cdot (A \cdot C - A + B \cdot C)}}$$

0, 0, 0, 4, 5, 6:

$$-\frac{E \cdot \sqrt{-D \cdot (D - 2)} \cdot \sqrt{-D \cdot F^2 \cdot (D - 2)}}{F \cdot (D - 2) \cdot \sqrt{D^2 \cdot E^2}}$$

1, 0, 0, 4, 5, 6:

$$\frac{E \cdot \sqrt{A \cdot D \cdot (A - A \cdot D + 1)} \cdot \sqrt{A \cdot D \cdot F^2 \cdot (A - A \cdot D + 1)}}{F \cdot \sqrt{A^2 \cdot D^2 \cdot E^2 \cdot (A - A \cdot D + 1)}}$$

0, 2, 0, 4, 5, 6:

$$\frac{E \cdot \sqrt{D \cdot (B - D + 1)} \cdot \sqrt{D \cdot F^2 \cdot (B - D + 1)}}{F \cdot \sqrt{D^2 \cdot E^2 \cdot (B - D + 1)}}$$

1, 2, 0, 4, 5, 6:

$$\frac{E \cdot \sqrt{A \cdot D \cdot (A + B - A \cdot D)} \cdot \sqrt{A \cdot D \cdot F^2 \cdot (A + B - A \cdot D)}}{F \cdot \sqrt{A^2 \cdot D^2 \cdot E^2 \cdot (A + B - A \cdot D)}}$$

0, 0, 3, 4, 5, 6:

$$-\frac{E \cdot \sqrt{-D \cdot (D - 2 \cdot C)} \cdot \sqrt{-D \cdot F^2 \cdot (D - 2 \cdot C)}}{F \cdot \sqrt{D^2 \cdot E^2 \cdot (D - 2 \cdot C)}}$$

1, 0, 3, 4, 5, 6:

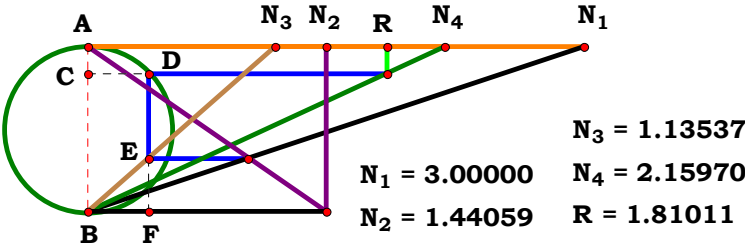
$$\frac{E \cdot \sqrt{A \cdot D \cdot (C + A \cdot C - A \cdot D)} \cdot \sqrt{A \cdot D \cdot F^2 \cdot (C + A \cdot C - A \cdot D)}}{F \cdot (C + A \cdot C - A \cdot D) \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}$$

0, 2, 3, 4, 5, 6:

$$\frac{E \cdot \sqrt{D \cdot (C - D + B \cdot C)} \cdot \sqrt{D \cdot F^2 \cdot (C - D + B \cdot C)}}{F \cdot \sqrt{D^2 \cdot E^2 \cdot (C - D + B \cdot C)}}$$

1, 2, 3, 4, 5, 6:

$$\frac{E \cdot \sqrt{A \cdot D \cdot (A \cdot C - A \cdot D + B \cdot C)} \cdot \sqrt{A \cdot D \cdot F^2 \cdot (A \cdot C - A \cdot D + B \cdot C)}}{F \cdot \sqrt{A^2 \cdot D^2 \cdot E^2 \cdot (A \cdot C - A \cdot D + B \cdot C)}}$$



Unit.

$AB := 1$

Given.

$N_1 := 3$

$N_2 := 1.44059$

$N_3 := 1.13537$

$N_4 := 2.15970$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot \left[\sqrt{\left[C \cdot (A + B) - 2 \cdot A \cdot N_u \right] \cdot \left[C \cdot (A + B) + 2 \cdot A \cdot N_u \right]} + C \cdot (A + B) \right]}{2 \cdot D \cdot (A + B) \cdot C}$$

$$= 1.810113$$

$$Num := \frac{N_u \cdot \left[\sqrt{\left[C \cdot (A + B) - 2 \cdot A \cdot N_u \right] \cdot \left[C \cdot (A + B) + 2 \cdot A \cdot N_u \right]} + C \cdot (A + B) \right]}{\sqrt{\left[N_u \cdot \left[\sqrt{\left[C \cdot (A + B) - 2 \cdot A \cdot N_u \right] \cdot \left[C \cdot (A + B) + 2 \cdot A \cdot N_u \right]} + C \cdot (A + B) \right] \right]^2}}$$

$$Den := \frac{2 \cdot D \cdot (A + B) \cdot C}{\sqrt{\left[2 \cdot D \cdot (A + B) \cdot C \right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$

$Den = 1$

$L = 1$

$$L - \frac{N_u \cdot \left[A \cdot C + B \cdot C + \sqrt{\left[C \cdot (A + B) - 2 \cdot A \cdot N_u \right] \cdot \left[C \cdot (A + B) + 2 \cdot A \cdot N_u \right]} \right] \cdot \sqrt{C^2 \cdot D^2 \cdot (A + B)^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot \left[C \cdot (A + B) + \sqrt{\left[C \cdot (A + B) - 2 \cdot A \cdot N_u \right] \cdot \left[C \cdot (A + B) + 2 \cdot A \cdot N_u \right]} \right]^2 \cdot (A + B)}} = 0$$



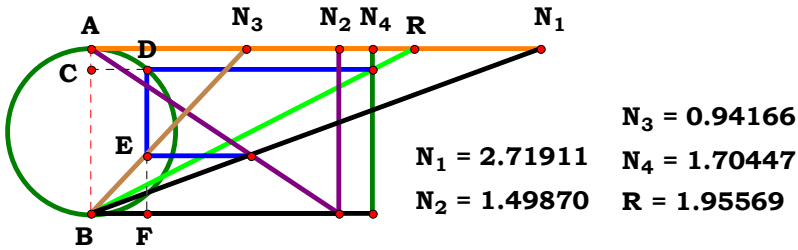
For 4 variables there are 16 subsets.

$$\begin{aligned}
 0, 0, 0, 0: & \frac{N_u \cdot \left[\sqrt{-(2 \cdot N_u - 2) \cdot (2 \cdot N_u + 2)} + 2 \right]}{\sqrt{N_u^2 \cdot \left[\sqrt{-(2 \cdot N_u - 2) \cdot (2 \cdot N_u + 2)} + 2 \right]^2}} \\
 1, 0, 0, 0: & \frac{N_u \cdot \sqrt{(A+1)^2} \cdot \left[A + \sqrt{(A - 2 \cdot A \cdot N_u + 1) \cdot (A + 2 \cdot A \cdot N_u + 1)} + 1 \right]}{\sqrt{N_u^2 \cdot \left[A + \sqrt{(A - 2 \cdot A \cdot N_u + 1) \cdot (A + 2 \cdot A \cdot N_u + 1)} + 1 \right]^2} \cdot (A+1)} \\
 0, 2, 0, 0: & \frac{N_u \cdot \sqrt{(B+1)^2} \cdot \left[B + \sqrt{(B - 2 \cdot N_u + 1) \cdot (B + 2 \cdot N_u + 1)} + 1 \right]}{(B+1) \cdot \sqrt{N_u^2 \cdot \left[B + \sqrt{(B - 2 \cdot N_u + 1) \cdot (B + 2 \cdot N_u + 1)} + 1 \right]^2}} \\
 1, 2, 0, 0: & \frac{N_u \cdot \sqrt{(A+B)^2} \cdot \left[A+B + \sqrt{(A+B - 2 \cdot A \cdot N_u) \cdot (A+B + 2 \cdot A \cdot N_u)} \right]}{(A+B) \cdot \sqrt{N_u^2 \cdot \left[A+B + \sqrt{(A+B - 2 \cdot A \cdot N_u) \cdot (A+B + 2 \cdot A \cdot N_u)} \right]^2}} \\
 0, 0, 3, 0: & \frac{N_u \cdot \sqrt{C^2} \cdot \left[2 \cdot C + \sqrt{(2 \cdot C - 2 \cdot N_u) \cdot (2 \cdot C + 2 \cdot N_u)} \right]}{C \cdot \sqrt{N_u^2 \cdot \left[2 \cdot C + \sqrt{(2 \cdot C - 2 \cdot N_u) \cdot (2 \cdot C + 2 \cdot N_u)} \right]^2}} \\
 1, 0, 3, 0: & \frac{N_u \cdot \sqrt{C^2 \cdot (A+1)^2} \cdot \left[C + \sqrt{\left[C \cdot (A+1) - 2 \cdot A \cdot N_u \right] \cdot \left[2 \cdot A \cdot N_u + C \cdot (A+1) \right]} + A \cdot C \right]}{C \cdot (A+1) \cdot \sqrt{N_u^2 \cdot \left[\sqrt{\left[C \cdot (A+1) - 2 \cdot A \cdot N_u \right] \cdot \left[2 \cdot A \cdot N_u + C \cdot (A+1) \right]} + C \cdot (A+1) \right]^2}} \\
 0, 2, 3, 0: & \frac{N_u \cdot \sqrt{C^2 \cdot (B+1)^2} \cdot \left[C + B \cdot C + \sqrt{-\left[2 \cdot N_u + C \cdot (B+1) \right] \cdot \left[2 \cdot N_u - C \cdot (B+1) \right]} \right]}{C \cdot \sqrt{N_u^2 \cdot \left[\sqrt{-\left[2 \cdot N_u + C \cdot (B+1) \right] \cdot \left[2 \cdot N_u - C \cdot (B+1) \right]} + C \cdot (B+1) \right]^2} \cdot (B+1)} \\
 1, 2, 3, 0: & \frac{N_u \cdot \sqrt{C^2 \cdot (A+B)^2} \cdot \left[A \cdot C + B \cdot C + \sqrt{\left[C \cdot (A+B) - 2 \cdot A \cdot N_u \right] \cdot \left[C \cdot (A+B) + 2 \cdot A \cdot N_u \right]} \right]}{C \cdot \sqrt{N_u^2 \cdot \left[C \cdot (A+B) + \sqrt{\left[C \cdot (A+B) - 2 \cdot A \cdot N_u \right] \cdot \left[C \cdot (A+B) + 2 \cdot A \cdot N_u \right]} \right]^2} \cdot (A+B)}
 \end{aligned}$$

$$\begin{aligned}
 0, 0, 0, 4: & \frac{N_u \cdot \sqrt{D^2} \cdot \left[\sqrt{-(2 \cdot N_u - 2) \cdot (2 \cdot N_u + 2)} + 2 \right]}{D \cdot \sqrt{N_u^2 \cdot \left[\sqrt{-(2 \cdot N_u - 2) \cdot (2 \cdot N_u + 2)} + 2 \right]^2}} \\
 1, 0, 0, 4: & \frac{N_u \cdot \sqrt{D^2 \cdot (A+1)^2} \cdot \left[A + \sqrt{(A - 2 \cdot A \cdot N_u + 1) \cdot (A + 2 \cdot A \cdot N_u + 1)} + 1 \right]}{D \cdot \sqrt{N_u^2 \cdot \left[A + \sqrt{(A - 2 \cdot A \cdot N_u + 1) \cdot (A + 2 \cdot A \cdot N_u + 1)} + 1 \right]^2} \cdot (A+1)} \\
 0, 2, 0, 4: & \frac{N_u \cdot \sqrt{D^2 \cdot (B+1)^2} \cdot \left[B + \sqrt{(B - 2 \cdot N_u + 1) \cdot (B + 2 \cdot N_u + 1)} + 1 \right]}{D \cdot (B+1) \cdot \sqrt{N_u^2 \cdot \left[B + \sqrt{(B - 2 \cdot N_u + 1) \cdot (B + 2 \cdot N_u + 1)} + 1 \right]^2}} \\
 1, 2, 0, 4: & \frac{N_u \cdot \sqrt{D^2 \cdot (A+B)^2} \cdot \left[A+B + \sqrt{(A+B - 2 \cdot A \cdot N_u) \cdot (A+B + 2 \cdot A \cdot N_u)} \right]}{D \cdot (A+B) \cdot \sqrt{N_u^2 \cdot \left[A+B + \sqrt{(A+B - 2 \cdot A \cdot N_u) \cdot (A+B + 2 \cdot A \cdot N_u)} \right]^2}} \\
 0, 0, 3, 4: & \frac{N_u \cdot \left[2 \cdot C + \sqrt{(2 \cdot C - 2 \cdot N_u) \cdot (2 \cdot C + 2 \cdot N_u)} \right] \cdot \sqrt{C^2 \cdot D^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot \left[2 \cdot C + \sqrt{(2 \cdot C - 2 \cdot N_u) \cdot (2 \cdot C + 2 \cdot N_u)} \right]^2}} \\
 1, 0, 3, 4: & \frac{N_u \cdot \sqrt{C^2 \cdot D^2 \cdot (A+1)^2} \cdot \left[C + \sqrt{\left[C \cdot (A+1) - 2 \cdot A \cdot N_u \right] \cdot \left[2 \cdot A \cdot N_u + C \cdot (A+1) \right]} + A \cdot C \right]}{C \cdot D \cdot (A+1) \cdot \sqrt{N_u^2 \cdot \left[\sqrt{\left[C \cdot (A+1) - 2 \cdot A \cdot N_u \right] \cdot \left[2 \cdot A \cdot N_u + C \cdot (A+1) \right]} + C \cdot (A+1) \right]^2}} \\
 0, 2, 3, 4: & \frac{N_u \cdot \left[C + B \cdot C + \sqrt{-\left[2 \cdot N_u + C \cdot (B+1) \right] \cdot \left[2 \cdot N_u - C \cdot (B+1) \right]} \right] \cdot \sqrt{C^2 \cdot D^2 \cdot (B+1)^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot \left[\sqrt{-\left[2 \cdot N_u + C \cdot (B+1) \right] \cdot \left[2 \cdot N_u - C \cdot (B+1) \right]} + C \cdot (B+1) \right]^2} \cdot (B+1)} \\
 1, 2, 3, 4: & \frac{N_u \cdot \left[A \cdot C + B \cdot C + \sqrt{\left[C \cdot (A+B) - 2 \cdot A \cdot N_u \right] \cdot \left[C \cdot (A+B) + 2 \cdot A \cdot N_u \right]} \right] \cdot \sqrt{C^2 \cdot D^2 \cdot (A+B)^2}}{C \cdot D \cdot \sqrt{N_u^2 \cdot \left[C \cdot (A+B) + \sqrt{\left[C \cdot (A+B) - 2 \cdot A \cdot N_u \right] \cdot \left[C \cdot (A+B) + 2 \cdot A \cdot N_u \right]} \right]^2} \cdot (A+B)}
 \end{aligned}$$



2SMT6R7



Unit. $AB := 1$ Given. $N_1 := 2.71911$ $N_2 := 1.49870$ $N_3 := .94166$

$N_4 := 1.70447$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{2 \cdot N_u \cdot (A + B) \cdot C}{D \cdot \left[C \cdot (A + B) + \sqrt{\left[(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u) \cdot (A \cdot C + B \cdot C + 2 \cdot A \cdot N_u) \right]} \right]} = 1.95569$$

$$Num := \frac{2 \cdot N_u \cdot (A + B) \cdot C}{\sqrt{\left[2 \cdot N_u \cdot (A + B) \cdot C \right]^2}}$$

$$Den := \frac{D \cdot \left[C \cdot (A + B) + \sqrt{\left[(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u) \cdot (A \cdot C + B \cdot C + 2 \cdot A \cdot N_u) \right]} \right]}{\sqrt{\left[D \cdot \left[C \cdot (A + B) + \sqrt{\left[(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u) \cdot (A \cdot C + B \cdot C + 2 \cdot A \cdot N_u) \right]} \right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{C \cdot N_u \cdot (A + B) \cdot \sqrt{D^2 \cdot \left[\sqrt{(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u) \cdot (A \cdot C + B \cdot C + 2 \cdot A \cdot N_u)} + C \cdot (A + B) \right]^2}}{D \cdot \left[\sqrt{(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u) \cdot (A \cdot C + B \cdot C + 2 \cdot A \cdot N_u)} + A \cdot C + B \cdot C \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + B)^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{\left[\sqrt{-\left(2 \cdot N_u - 2\right) \cdot \left(2 \cdot N_u + 2\right)} + 2\right]^2}}{\left[\sqrt{-\left(2 \cdot N_u - 2\right) \cdot \left(2 \cdot N_u + 2\right)} + 2\right] \cdot \sqrt{N_u^2}}$$

1, 0, 0, 0:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{\left[A + \sqrt{\left(A - 2 \cdot A \cdot N_u + 1\right) \cdot \left(A + 2 \cdot A \cdot N_u + 1\right)} + 1\right]^2}}{\sqrt{N_u^2} \cdot (A + 1)^2 \cdot \left[A + \sqrt{\left(A - 2 \cdot A \cdot N_u + 1\right) \cdot \left(A + 2 \cdot A \cdot N_u + 1\right)} + 1\right]}$$

0, 2, 0, 0:

$$\frac{N_u \cdot (B + 1) \cdot \sqrt{\left[B + \sqrt{\left(B - 2 \cdot N_u + 1\right) \cdot \left(B + 2 \cdot N_u + 1\right)} + 1\right]^2}}{\sqrt{N_u^2} \cdot (B + 1)^2 \cdot \left[B + \sqrt{\left(B - 2 \cdot N_u + 1\right) \cdot \left(B + 2 \cdot N_u + 1\right)} + 1\right]}$$

1, 2, 0, 0:

$$\frac{N_u \cdot (A + B) \cdot \sqrt{\left[A + B + \sqrt{\left(A + B - 2 \cdot A \cdot N_u\right) \cdot \left(A + B + 2 \cdot A \cdot N_u\right)}\right]^2}}{\sqrt{N_u^2} \cdot (A + B)^2 \cdot \left[A + B + \sqrt{\left(A + B - 2 \cdot A \cdot N_u\right) \cdot \left(A + B + 2 \cdot A \cdot N_u\right)}\right]}$$

0, 0, 3, 0:

$$\frac{C \cdot N_u \cdot \sqrt{\left[2 \cdot C + \sqrt{\left(2 \cdot C - 2 \cdot N_u\right) \cdot \left(2 \cdot C + 2 \cdot N_u\right)}\right]^2}}{\left[2 \cdot C + \sqrt{\left(2 \cdot C - 2 \cdot N_u\right) \cdot \left(2 \cdot C + 2 \cdot N_u\right)}\right] \cdot \sqrt{C^2 \cdot N_u^2}}$$

1, 0, 3, 0:

$$\frac{C \cdot N_u \cdot \sqrt{\left[\sqrt{\left(C + A \cdot C - 2 \cdot A \cdot N_u\right) \cdot \left(C + A \cdot C + 2 \cdot A \cdot N_u\right)} + C \cdot (A + 1)\right]^2} \cdot (A + 1)}{\left[C + A \cdot C + \sqrt{\left(C + A \cdot C - 2 \cdot A \cdot N_u\right) \cdot \left(C + A \cdot C + 2 \cdot A \cdot N_u\right)}\right] \cdot \sqrt{C^2 \cdot N_u^2} \cdot (A + 1)^2}$$

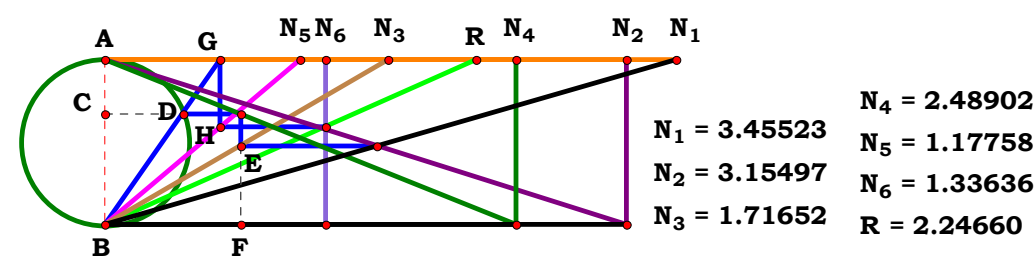
0, 2, 3, 0:

$$\frac{C \cdot N_u \cdot (B + 1) \cdot \sqrt{\left[\sqrt{\left(C - 2 \cdot N_u + B \cdot C\right) \cdot \left(C + 2 \cdot N_u + B \cdot C\right)} + C \cdot (B + 1)\right]^2}}{\sqrt{C^2 \cdot N_u^2} \cdot (B + 1)^2 \cdot \left[C + \sqrt{\left(C - 2 \cdot N_u + B \cdot C\right) \cdot \left(C + 2 \cdot N_u + B \cdot C\right)} + B \cdot C\right]}$$

1, 2, 3, 0:

$$\frac{C \cdot N_u \cdot (A + B) \cdot \sqrt{\left[\sqrt{\left(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u\right) \cdot \left(A \cdot C + B \cdot C + 2 \cdot A \cdot N_u\right)} + C \cdot (A + B)\right]^2}}{\left[\sqrt{\left(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u\right) \cdot \left(A \cdot C + B \cdot C + 2 \cdot A \cdot N_u\right)} + A \cdot C + B \cdot C\right] \cdot \sqrt{C^2 \cdot N_u^2} \cdot (A + B)^2}$$

0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2 \cdot \left[\sqrt{-(2 \cdot N_u - 2) \cdot (2 \cdot N_u + 2)} + 2 \right]^2}}{D \cdot \left[\sqrt{-(2 \cdot N_u - 2) \cdot (2 \cdot N_u + 2)} + 2 \right] \cdot \sqrt{N_u^2}}$
1, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2 \cdot \left[A + \sqrt{(A - 2 \cdot A \cdot N_u + 1) \cdot (A + 2 \cdot A \cdot N_u + 1)} + 1 \right]^2 \cdot (A + 1)}}{D \cdot \sqrt{N_u^2 \cdot (A + 1)^2} \cdot \left[A + \sqrt{(A - 2 \cdot A \cdot N_u + 1) \cdot (A + 2 \cdot A \cdot N_u + 1)} + 1 \right]}$
0, 2, 0, 4:	$\frac{N_u \cdot (B + 1) \cdot \sqrt{D^2 \cdot \left[B + \sqrt{(B - 2 \cdot N_u + 1) \cdot (B + 2 \cdot N_u + 1)} + 1 \right]^2}}{D \cdot \sqrt{N_u^2 \cdot (B + 1)^2} \cdot \left[B + \sqrt{(B - 2 \cdot N_u + 1) \cdot (B + 2 \cdot N_u + 1)} + 1 \right]}$
1, 2, 0, 4:	$\frac{N_u \cdot (A + B) \cdot \sqrt{D^2 \cdot \left[A + B + \sqrt{(A + B - 2 \cdot A \cdot N_u) \cdot (A + B + 2 \cdot A \cdot N_u)} \right]^2}}{D \cdot \sqrt{N_u^2 \cdot (A + B)^2} \cdot \left[A + B + \sqrt{(A + B - 2 \cdot A \cdot N_u) \cdot (A + B + 2 \cdot A \cdot N_u)} \right]}$
0, 0, 3, 4:	$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot \left[2 \cdot C + \sqrt{(2 \cdot C - 2 \cdot N_u) \cdot (2 \cdot C + 2 \cdot N_u)} \right]^2}}{D \cdot \left[2 \cdot C + \sqrt{(2 \cdot C - 2 \cdot N_u) \cdot (2 \cdot C + 2 \cdot N_u)} \right] \cdot \sqrt{C^2 \cdot N_u^2}}$
1, 0, 3, 4:	$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot \left[\sqrt{(C + A \cdot C - 2 \cdot A \cdot N_u) \cdot (C + A \cdot C + 2 \cdot A \cdot N_u)} + C \cdot (A + 1) \right]^2 \cdot (A + 1)}}{D \cdot \left[C + A \cdot C + \sqrt{(C + A \cdot C - 2 \cdot A \cdot N_u) \cdot (C + A \cdot C + 2 \cdot A \cdot N_u)} \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + 1)^2}}$
0, 2, 3, 4:	$\frac{C \cdot N_u \cdot (B + 1) \cdot \sqrt{D^2 \cdot \left[\sqrt{(C - 2 \cdot N_u + B \cdot C) \cdot (C + 2 \cdot N_u + B \cdot C)} + C \cdot (B + 1) \right]^2}}{D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (B + 1)^2} \cdot \left[C + \sqrt{(C - 2 \cdot N_u + B \cdot C) \cdot (C + 2 \cdot N_u + B \cdot C)} + B \cdot C \right]}$
1, 2, 3, 4:	$\frac{C \cdot N_u \cdot (A + B) \cdot \sqrt{D^2 \cdot \left[\sqrt{(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u) \cdot (A \cdot C + B \cdot C + 2 \cdot A \cdot N_u)} + C \cdot (A + B) \right]^2}}{D \cdot \left[\sqrt{(A \cdot C + B \cdot C - 2 \cdot A \cdot N_u) \cdot (A \cdot C + B \cdot C + 2 \cdot A \cdot N_u)} + A \cdot C + B \cdot C \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + B)^2}}$



Unit.
AB := 1
Given.
N₁ := 3.45523
N₂ := 3.15497
N₃ := 1.71652
N₄ := 2.48902
N₅ := 1.17758
N₆ := 1.33636

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{A \cdot (C - D) + B \cdot C}}{A \cdot D \cdot E \cdot F} = 2.246592$$

Num := $\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{A \cdot (C - D) + B \cdot C}}{\sqrt{\left[N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{A \cdot (C - D) + B \cdot C}\right]^2}}$

Den := $\frac{A \cdot D \cdot E \cdot F}{\sqrt{(A \cdot D \cdot E \cdot F)^2}}$

L := $\frac{Num}{Den}$

Definitions.

Num = 1
Den = 1
L = 1

$$L - \frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{B \cdot C + A \cdot (C - D)} \cdot \sqrt{A^2 \cdot D^2 \cdot E^2 \cdot F^2}}{A \cdot D \cdot E \cdot F \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [B \cdot C + A \cdot (C - D)]}} = 0$$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0:	$\frac{N_u^2}{\sqrt{N_u^4}}$
1, 0, 0, 0, 0, 0:	$\frac{N_u^2 \cdot \sqrt{A^2}}{\sqrt{A} \cdot \sqrt{A \cdot N_u^4}}$
0, 2, 0, 0, 0, 0:	$\frac{\sqrt{B} \cdot N_u^2}{\sqrt{B \cdot N_u^4}}$
1, 2, 0, 0, 0, 0:	$\frac{\sqrt{B} \cdot N_u^2 \cdot \sqrt{A^2}}{\sqrt{A} \cdot \sqrt{A \cdot B \cdot N_u^4}}$
0, 0, 3, 0, 0, 0:	$\frac{N_u^2 \cdot \sqrt{2 \cdot C - 1}}{\sqrt{N_u^4 \cdot (2 \cdot C - 1)}}$
1, 0, 3, 0, 0, 0:	$\frac{N_u^2 \cdot \sqrt{A^2} \cdot \sqrt{C + A \cdot (C - 1)}}{\sqrt{A} \cdot \sqrt{A \cdot N_u^4 \cdot [C + A \cdot (C - 1)]}}$
0, 2, 3, 0, 0, 0:	$\frac{N_u^2 \cdot \sqrt{C + B \cdot C - 1}}{\sqrt{N_u^4 \cdot (C + B \cdot C - 1)}}$
1, 2, 3, 0, 0, 0:	$\frac{N_u^2 \cdot \sqrt{A^2} \cdot \sqrt{B \cdot C + A \cdot (C - 1)}}{\sqrt{A} \cdot \sqrt{A \cdot N_u^4 \cdot [B \cdot C + A \cdot (C - 1)]}}$

0, 0, 0, 4, 0, 0:	$\frac{N_u^2 \cdot \sqrt{2 - D} \cdot \sqrt{D^2}}{\sqrt{D} \cdot \sqrt{-D \cdot N_u^4 \cdot (D - 2)}}$
1, 0, 0, 4, 0, 0:	$\frac{N_u^2 \cdot \sqrt{1 - A \cdot (D - 1)} \cdot \sqrt{A^2 \cdot D^2} \cdot \sqrt{A \cdot D}}{A \cdot D \cdot \sqrt{-A \cdot D \cdot N_u^4 \cdot [A \cdot (D - 1) - 1]}}$
0, 2, 0, 4, 0, 0:	$\frac{N_u^2 \cdot \sqrt{D^2} \cdot \sqrt{B - D + 1}}{\sqrt{D} \cdot \sqrt{D \cdot N_u^4 \cdot (B - D + 1)}}$
1, 2, 0, 4, 0, 0:	$\frac{N_u^2 \cdot \sqrt{A^2 \cdot D^2} \cdot \sqrt{A \cdot D} \cdot \sqrt{B - A \cdot (D - 1)}}{A \cdot D \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [B - A \cdot (D - 1)]}}$
0, 0, 3, 4, 0, 0:	$\frac{N_u^2 \cdot \sqrt{D^2} \cdot \sqrt{2 \cdot C - D}}{\sqrt{D} \cdot \sqrt{-D \cdot N_u^4 \cdot (D - 2 \cdot C)}}$
1, 0, 3, 4, 0, 0:	$\frac{N_u^2 \cdot \sqrt{C + A \cdot (C - D)} \cdot \sqrt{A^2 \cdot D^2} \cdot \sqrt{A \cdot D}}{A \cdot D \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [C + A \cdot (C - D)]}}$
0, 2, 3, 4, 0, 0:	$\frac{N_u^2 \cdot \sqrt{D^2} \cdot \sqrt{C - D + B \cdot C}}{\sqrt{D} \cdot \sqrt{D \cdot N_u^4 \cdot (C - D + B \cdot C)}}$
1, 2, 3, 4, 0, 0:	$\frac{N_u^2 \cdot \sqrt{A^2 \cdot D^2} \cdot \sqrt{A \cdot D} \cdot \sqrt{B \cdot C + A \cdot (C - D)}}{A \cdot D \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [B \cdot C + A \cdot (C - D)]}}$

0, 0, 0, 0, 5, 0:	$\frac{N_u^2 \cdot \sqrt{E^2}}{E \cdot \sqrt{N_u^4}}$
1, 0, 0, 0, 5, 0:	$\frac{N_u^2 \cdot \sqrt{A^2 \cdot E^2}}{\sqrt{A \cdot E} \cdot \sqrt{A \cdot N_u^4}}$
0, 2, 0, 0, 5, 0:	$\frac{\sqrt{B \cdot N_u^2} \cdot \sqrt{E^2}}{E \cdot \sqrt{B \cdot N_u^4}}$
1, 2, 0, 0, 5, 0:	$\frac{\sqrt{B \cdot N_u^2} \cdot \sqrt{A^2 \cdot E^2}}{\sqrt{A \cdot E} \cdot \sqrt{A \cdot B \cdot N_u^4}}$
0, 0, 3, 0, 5, 0:	$\frac{N_u^2 \cdot \sqrt{E^2} \cdot \sqrt{2 \cdot C - 1}}{E \cdot \sqrt{N_u^4 \cdot (2 \cdot C - 1)}}$
1, 0, 3, 0, 5, 0:	$\frac{N_u^2 \cdot \sqrt{A^2 \cdot E^2} \cdot \sqrt{C + A \cdot (C - 1)}}{\sqrt{A \cdot E} \cdot \sqrt{A \cdot N_u^4 \cdot [C + A \cdot (C - 1)]}}$
0, 2, 3, 0, 5, 0:	$\frac{N_u^2 \cdot \sqrt{E^2} \cdot \sqrt{C + B \cdot C - 1}}{E \cdot \sqrt{N_u^4 \cdot (C + B \cdot C - 1)}}$
1, 2, 3, 0, 5, 0:	$\frac{N_u^2 \cdot \sqrt{B \cdot C + A \cdot (C - 1)} \cdot \sqrt{A^2 \cdot E^2}}{\sqrt{A \cdot E} \cdot \sqrt{A \cdot N_u^4 \cdot [B \cdot C + A \cdot (C - 1)]}}$

0, 0, 0, 4, 5, 0:	$\frac{N_u^2 \cdot \sqrt{2 - D} \cdot \sqrt{D^2 \cdot E^2}}{\sqrt{D \cdot E} \cdot \sqrt{-D \cdot N_u^4 \cdot (D - 2)}}$
1, 0, 0, 4, 5, 0:	$\frac{N_u^2 \cdot \sqrt{1 - A \cdot (D - 1)} \cdot \sqrt{A \cdot D} \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{-A \cdot D \cdot N_u^4 \cdot [A \cdot (D - 1) - 1]}}$
0, 2, 0, 4, 5, 0:	$\frac{N_u^2 \cdot \sqrt{D^2 \cdot E^2} \cdot \sqrt{B - D + 1}}{\sqrt{D \cdot E} \cdot \sqrt{D \cdot N_u^4 \cdot (B - D + 1)}}$
1, 2, 0, 4, 5, 0:	$\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{B - A \cdot (D - 1)} \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [B - A \cdot (D - 1)]}}$
0, 0, 3, 4, 5, 0:	$\frac{N_u^2 \cdot \sqrt{D^2 \cdot E^2} \cdot \sqrt{2 \cdot C - D}}{\sqrt{D \cdot E} \cdot \sqrt{-D \cdot N_u^4 \cdot (D - 2 \cdot C)}}$
1, 0, 3, 4, 5, 0:	$\frac{N_u^2 \cdot \sqrt{C + A \cdot (C - D)} \cdot \sqrt{A \cdot D} \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [C + A \cdot (C - D)]}}$
0, 2, 3, 4, 5, 0:	$\frac{N_u^2 \cdot \sqrt{D^2 \cdot E^2} \cdot \sqrt{C - D + B \cdot C}}{\sqrt{D \cdot E} \cdot \sqrt{D \cdot N_u^4 \cdot (C - D + B \cdot C)}}$
1, 2, 3, 4, 5, 0:	$\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{B \cdot C + A \cdot (C - D)} \cdot \sqrt{A^2 \cdot D^2 \cdot E^2}}{A \cdot D \cdot E \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [B \cdot C + A \cdot (C - D)]}}$

0, 0, 0, 0, 0, 6:	$\frac{N_u^2 \cdot \sqrt{F^2}}{F \cdot \sqrt{N_u^4}}$
1, 0, 0, 0, 0, 6:	$\frac{N_u^2 \cdot \sqrt{A^2 \cdot F^2}}{\sqrt{A \cdot F} \cdot \sqrt{A \cdot N_u^4}}$
0, 2, 0, 0, 0, 6:	$\frac{\sqrt{B \cdot N_u^2} \cdot \sqrt{F^2}}{F \cdot \sqrt{B \cdot N_u^4}}$
1, 2, 0, 0, 0, 6:	$\frac{\sqrt{B \cdot N_u^2} \cdot \sqrt{A^2 \cdot F^2}}{\sqrt{A \cdot F} \cdot \sqrt{A \cdot B \cdot N_u^4}}$
0, 0, 3, 0, 0, 6:	$\frac{N_u^2 \cdot \sqrt{F^2} \cdot \sqrt{2 \cdot C - 1}}{F \cdot \sqrt{N_u^4 \cdot (2 \cdot C - 1)}}$
1, 0, 3, 0, 0, 6:	$\frac{N_u^2 \cdot \sqrt{A^2 \cdot F^2} \cdot \sqrt{C + A \cdot (C - 1)}}{\sqrt{A \cdot F} \cdot \sqrt{A \cdot N_u^4 \cdot [C + A \cdot (C - 1)]}}$
0, 2, 3, 0, 0, 6:	$\frac{N_u^2 \cdot \sqrt{F^2} \cdot \sqrt{C + B \cdot C - 1}}{F \cdot \sqrt{N_u^4 \cdot (C + B \cdot C - 1)}}$
1, 2, 3, 0, 0, 6:	$\frac{N_u^2 \cdot \sqrt{B \cdot C + A \cdot (C - 1)} \cdot \sqrt{A^2 \cdot F^2}}{\sqrt{A \cdot F} \cdot \sqrt{A \cdot N_u^4 \cdot [B \cdot C + A \cdot (C - 1)]}}$

0, 0, 0, 4, 0, 6:	$\frac{N_u^2 \cdot \sqrt{2 - D} \cdot \sqrt{D^2 \cdot F^2}}{\sqrt{D \cdot F} \cdot \sqrt{-D \cdot N_u^4 \cdot (D - 2)}}$
1, 0, 0, 4, 0, 6:	$\frac{N_u^2 \cdot \sqrt{1 - A \cdot (D - 1)} \cdot \sqrt{A \cdot D} \cdot \sqrt{A^2 \cdot D^2 \cdot F^2}}{A \cdot D \cdot F \cdot \sqrt{-A \cdot D \cdot N_u^4 \cdot [A \cdot (D - 1) - 1]}}$
0, 2, 0, 4, 0, 6:	$\frac{N_u^2 \cdot \sqrt{D^2 \cdot F^2} \cdot \sqrt{B - D + 1}}{\sqrt{D \cdot F} \cdot \sqrt{D \cdot N_u^4 \cdot (B - D + 1)}}$
1, 2, 0, 4, 0, 6:	$\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{B - A \cdot (D - 1)} \cdot \sqrt{A^2 \cdot D^2 \cdot F^2}}{A \cdot D \cdot F \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [B - A \cdot (D - 1)]}}$
0, 0, 3, 4, 0, 6:	$\frac{N_u^2 \cdot \sqrt{D^2 \cdot F^2} \cdot \sqrt{2 \cdot C - D}}{\sqrt{D \cdot F} \cdot \sqrt{-D \cdot N_u^4 \cdot (D - 2 \cdot C)}}$
1, 0, 3, 4, 0, 6:	$\frac{N_u^2 \cdot \sqrt{C + A \cdot (C - D)} \cdot \sqrt{A \cdot D} \cdot \sqrt{A^2 \cdot D^2 \cdot F^2}}{A \cdot D \cdot F \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [C + A \cdot (C - D)]}}$
0, 2, 3, 4, 0, 6:	$\frac{N_u^2 \cdot \sqrt{D^2 \cdot F^2} \cdot \sqrt{C - D + B \cdot C}}{\sqrt{D \cdot F} \cdot \sqrt{D \cdot N_u^4 \cdot (C - D + B \cdot C)}}$
1, 2, 3, 4, 0, 6:	$\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{B \cdot C + A \cdot (C - D)} \cdot \sqrt{A^2 \cdot D^2 \cdot F^2}}{A \cdot D \cdot F \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [B \cdot C + A \cdot (C - D)]}}$

$$0, 0, 0, 0, 5, 6: \frac{N_u^2 \cdot \sqrt{E^2 \cdot F^2}}{E \cdot F \cdot \sqrt{N_u^4}}$$

$$1, 0, 0, 0, 5, 6: \frac{N_u^2 \cdot \sqrt{A^2 \cdot E^2 \cdot F^2}}{\sqrt{A \cdot E \cdot F} \cdot \sqrt{A \cdot N_u^4}}$$

$$0, 2, 0, 0, 5, 6: \frac{\sqrt{B \cdot N_u^2} \cdot \sqrt{E^2 \cdot F^2}}{E \cdot F \cdot \sqrt{B \cdot N_u^4}}$$

$$1, 2, 0, 0, 5, 6: \frac{\sqrt{B \cdot N_u^2} \cdot \sqrt{A^2 \cdot E^2 \cdot F^2}}{\sqrt{A \cdot E \cdot F} \cdot \sqrt{A \cdot B \cdot N_u^4}}$$

$$0, 0, 3, 0, 5, 6: \frac{N_u^2 \cdot \sqrt{E^2 \cdot F^2} \cdot \sqrt{2 \cdot C - 1}}{E \cdot F \cdot \sqrt{N_u^4 \cdot (2 \cdot C - 1)}}$$

$$1, 0, 3, 0, 5, 6: \frac{N_u^2 \cdot \sqrt{C + A \cdot (C - 1)} \cdot \sqrt{A^2 \cdot E^2 \cdot F^2}}{\sqrt{A \cdot E \cdot F} \cdot \sqrt{A \cdot N_u^4 \cdot [C + A \cdot (C - 1)]}}$$

$$0, 2, 3, 0, 5, 6: \frac{N_u^2 \cdot \sqrt{E^2 \cdot F^2} \cdot \sqrt{C + B \cdot C - 1}}{E \cdot F \cdot \sqrt{N_u^4 \cdot (C + B \cdot C - 1)}}$$

$$1, 2, 3, 0, 5, 6: \frac{N_u^2 \cdot \sqrt{B \cdot C + A \cdot (C - 1)} \cdot \sqrt{A^2 \cdot E^2 \cdot F^2}}{\sqrt{A \cdot E \cdot F} \cdot \sqrt{A \cdot N_u^4 \cdot [B \cdot C + A \cdot (C - 1)]}}$$

$$0, 0, 0, 4, 5, 6: \frac{N_u^2 \cdot \sqrt{2 - D} \cdot \sqrt{D^2 \cdot E^2 \cdot F^2}}{\sqrt{D \cdot E \cdot F} \cdot \sqrt{-D \cdot N_u^4 \cdot (D - 2)}}$$

$$1, 0, 0, 4, 5, 6: \frac{N_u^2 \cdot \sqrt{1 - A \cdot (D - 1)} \cdot \sqrt{A \cdot D} \cdot \sqrt{A^2 \cdot D^2 \cdot E^2 \cdot F^2}}{A \cdot D \cdot E \cdot F \cdot \sqrt{-A \cdot D \cdot N_u^4 \cdot [A \cdot (D - 1) - 1]}}$$

$$0, 2, 0, 4, 5, 6: \frac{N_u^2 \cdot \sqrt{D^2 \cdot E^2 \cdot F^2} \cdot \sqrt{B - D + 1}}{\sqrt{D \cdot E \cdot F} \cdot \sqrt{D \cdot N_u^4 \cdot (B - D + 1)}}$$

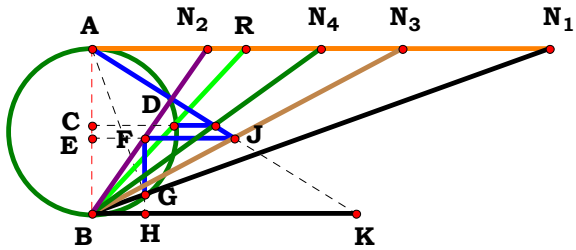
$$1, 2, 0, 4, 5, 6: \frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{B - A \cdot (D - 1)} \cdot \sqrt{A^2 \cdot D^2 \cdot E^2 \cdot F^2}}{A \cdot D \cdot E \cdot F \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [B - A \cdot (D - 1)]}}$$

$$0, 0, 3, 4, 5, 6: \frac{N_u^2 \cdot \sqrt{2 \cdot C - D} \cdot \sqrt{D^2 \cdot E^2 \cdot F^2}}{\sqrt{D \cdot E \cdot F} \cdot \sqrt{-D \cdot N_u^4 \cdot (D - 2 \cdot C)}}$$

$$1, 0, 3, 4, 5, 6: \frac{N_u^2 \cdot \sqrt{C + A \cdot (C - D)} \cdot \sqrt{A \cdot D} \cdot \sqrt{A^2 \cdot D^2 \cdot E^2 \cdot F^2}}{A \cdot D \cdot E \cdot F \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [C + A \cdot (C - D)]}}$$

$$0, 2, 3, 4, 5, 6: \frac{N_u^2 \cdot \sqrt{D^2 \cdot E^2 \cdot F^2} \cdot \sqrt{C - D + B \cdot C}}{\sqrt{D \cdot E \cdot F} \cdot \sqrt{D \cdot N_u^4 \cdot (C - D + B \cdot C)}}$$

$$1, 2, 3, 4, 5, 6: \frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot \sqrt{B \cdot C + A \cdot (C - D)} \cdot \sqrt{A^2 \cdot D^2 \cdot E^2 \cdot F^2}}{A \cdot D \cdot E \cdot F \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot [B \cdot C + A \cdot (C - D)]}}$$



$N_1 = 2.76754$
 $N_2 = 0.69478$
 $N_3 = 1.88118$
 $N_4 = 1.38484$
 $R = 0.92960$

Unit. $AB := 1$ Given. $N_1 := 2.76754$ $N_2 := .69478$ $N_3 := 1.88118$
 $N_4 := 1.38484$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{C \cdot \sqrt{A^2 - B \cdot A + N_u^2}}{\sqrt{A \cdot B \cdot C \cdot D}} = 0.9296$$

$Num := \frac{C \cdot \sqrt{A^2 - B \cdot A + N_u^2}}{\sqrt{\left(C \cdot \sqrt{A^2 - B \cdot A + N_u^2}\right)^2}}$ $Den := \frac{\sqrt{A \cdot B \cdot C \cdot D}}{\sqrt{\left(\sqrt{A \cdot B \cdot C \cdot D}\right)^2}}$ $L := \frac{Num}{Den}$

Definitions.

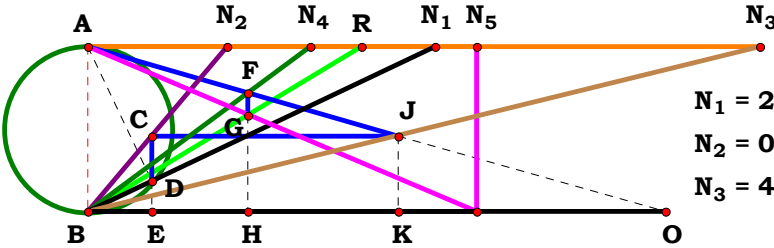
$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{C \cdot \sqrt{A^2 - B \cdot A + N_u^2}}{\sqrt{C^2 \cdot \left(A^2 - B \cdot A + N_u^2\right)}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	1	0, 0, 3, 0:	$\frac{C \cdot \sqrt{N_u^2}}{\sqrt{C^2 \cdot N_u^2}}$	0, 0, 0, 4:	1	0, 0, 3, 4:	$\frac{C \cdot \sqrt{N_u^2}}{\sqrt{C^2 \cdot N_u^2}}$
1, 0, 0, 0:	1	1, 0, 3, 0:	$\frac{C \cdot \sqrt{A^2 - A + N_u^2}}{\sqrt{C^2 \cdot (A^2 - A + N_u^2)}}$	1, 0, 0, 4:	1	1, 0, 3, 4:	$\frac{C \cdot \sqrt{A^2 - A + N_u^2}}{\sqrt{C^2 \cdot (A^2 - A + N_u^2)}}$
0, 2, 0, 0:	1	0, 2, 3, 0:	$\frac{C \cdot \sqrt{N_u^2 - B + 1}}{\sqrt{C^2 \cdot (N_u^2 - B + 1)}}$	0, 2, 0, 4:	1	0, 2, 3, 4:	$\frac{C \cdot \sqrt{N_u^2 - B + 1}}{\sqrt{C^2 \cdot (N_u^2 - B + 1)}}$
1, 2, 0, 0:	1	1, 2, 3, 0:	$\frac{C \cdot \sqrt{A^2 - B \cdot A + N_u^2}}{\sqrt{C^2 \cdot (A^2 - B \cdot A + N_u^2)}}$	1, 2, 0, 4:	1	1, 2, 3, 4:	$\frac{C \cdot \sqrt{A^2 - B \cdot A + N_u^2}}{\sqrt{C^2 \cdot (A^2 - B \cdot A + N_u^2)}}$



N₁ = 2.09922 N₄ = 1.34610
N₂ = 0.84007 N₅ = 2.34956
N₃ = 4.07016 R = 1.65787

Unit. AB := 1 Given. N₁ := 2.09922 N₂ := .84007 N₃ := 4.07016

N₄ := 1.34610 N₅ := 2.34956

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot B \cdot N_u}{C \cdot \left(A^2 + N_u^2 \right) - A \cdot B \cdot \left(C - D + E \right)} = 1.657883 \qquad \text{Num} := \frac{A \cdot B \cdot N_u}{\sqrt{\left(A \cdot B \cdot N_u \right)^2}} \qquad \text{Den} := \frac{C \cdot \left(A^2 + N_u^2 \right) - A \cdot B \cdot \left(C - D + E \right)}{\sqrt{\left[C \cdot \left(A^2 + N_u^2 \right) - A \cdot B \cdot \left(C - D + E \right) \right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot B \cdot N_u \cdot \sqrt{\left[C \cdot \left(A^2 + N_u^2 \right) - A \cdot B \cdot \left(C - D + E \right) \right]^2}}{\left(A^2 \cdot C + C \cdot N_u^2 - A \cdot B \cdot C + A \cdot B \cdot D - A \cdot B \cdot E \right) \cdot \sqrt{A^2 \cdot B^2 \cdot N_u^2}} = 0$$

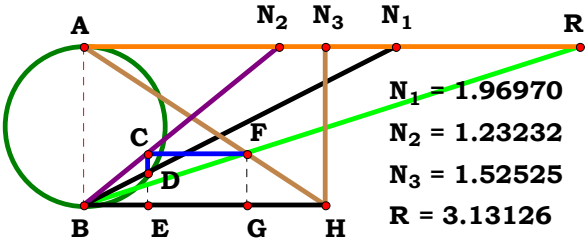


For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{\sqrt{N_u^4}}{N_u \cdot \sqrt{N_u^2}}$	0, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{(N_u^2 + D - 1)^2}}{\sqrt{N_u^2} \cdot (N_u^2 + D - 1)}$
1, 0, 0, 0, 0:	$\frac{A \cdot N_u \cdot \sqrt{(A^2 - A + N_u^2)^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (A^2 - A + N_u^2)}$	1, 0, 0, 4, 0:	$\frac{A \cdot N_u \cdot \sqrt{[A^2 + (D - 2) \cdot A + N_u^2]^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (A^2 - 2 \cdot A + N_u^2 + A \cdot D)}$
0, 2, 0, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{(N_u^2 - B + 1)^2}}{\sqrt{B^2 \cdot N_u^2} \cdot (N_u^2 - B + 1)}$	0, 2, 0, 4, 0:	$\frac{B \cdot N_u \cdot \sqrt{[N_u^2 + B \cdot (D - 2) + 1]^2}}{\sqrt{B^2 \cdot N_u^2} \cdot (N_u^2 - 2 \cdot B + B \cdot D + 1)}$
1, 2, 0, 0, 0:	$\frac{A \cdot B \cdot N_u \cdot \sqrt{(A^2 - B \cdot A + N_u^2)^2}}{\sqrt{A^2 \cdot B^2 \cdot N_u^2} \cdot (A^2 - B \cdot A + N_u^2)}$	1, 2, 0, 4, 0:	$\frac{A \cdot B \cdot N_u \cdot \sqrt{[A^2 + B \cdot (D - 2) \cdot A + N_u^2]^2}}{\sqrt{A^2 \cdot B^2 \cdot N_u^2} \cdot (A^2 + N_u^2 - 2 \cdot A \cdot B + A \cdot B \cdot D)}$
0, 0, 3, 0, 0:	$\frac{\sqrt{[C - C \cdot (N_u^2 + 1)]^2}}{C \cdot N_u \cdot \sqrt{N_u^2}}$	0, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{[C - D - C \cdot (N_u^2 + 1) + 1]^2}}{\sqrt{N_u^2} \cdot (C \cdot N_u^2 + D - 1)}$
1, 0, 3, 0, 0:	$\frac{A \cdot N_u \cdot \sqrt{[C \cdot (A^2 + N_u^2) - A \cdot C]^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (C \cdot A^2 - C \cdot A + C \cdot N_u^2)}$	1, 0, 3, 4, 0:	$\frac{A \cdot N_u \cdot \sqrt{[C \cdot (A^2 + N_u^2) - A \cdot (C - D + 1)]^2}}{\sqrt{A^2 \cdot N_u^2} \cdot (A \cdot D - A \cdot C - A + A^2 \cdot C + C \cdot N_u^2)}$
0, 2, 3, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{[C \cdot (N_u^2 + 1) - B \cdot C]^2}}{\sqrt{B^2 \cdot N_u^2} \cdot (C \cdot N_u^2 + C - B \cdot C)}$	0, 2, 3, 4, 0:	$\frac{B \cdot N_u \cdot \sqrt{[C \cdot (N_u^2 + 1) - B \cdot (C - D + 1)]^2}}{\sqrt{B^2 \cdot N_u^2} \cdot (C \cdot N_u^2 - B + C - B \cdot C + B \cdot D)}$
1, 2, 3, 0, 0:	$\frac{A \cdot B \cdot N_u \cdot \sqrt{[C \cdot (A^2 + N_u^2) - A \cdot B \cdot C]^2}}{(C \cdot A^2 - B \cdot C \cdot A + C \cdot N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot N_u^2}}$	1, 2, 3, 4, 0:	$\frac{A \cdot B \cdot N_u \cdot \sqrt{[C \cdot (A^2 + N_u^2) - A \cdot B \cdot (C - D + 1)]^2}}{\sqrt{A^2 \cdot B^2 \cdot N_u^2} \cdot (A^2 \cdot C - A \cdot B + C \cdot N_u^2 - A \cdot B \cdot C + A \cdot B \cdot D)}$

0, 0, 0, 0, 5:	$\frac{N_u \cdot \sqrt{(N_u^2 - E + 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 - E + 1)}}$
1, 0, 0, 0, 5:	$\frac{A \cdot N_u \cdot \sqrt{(A^2 - E \cdot A + N_u^2)^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A^2 - E \cdot A + N_u^2)}}$
0, 2, 0, 0, 5:	$\frac{B \cdot N_u \cdot \sqrt{(N_u^2 - B \cdot E + 1)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 - B \cdot E + 1)}}$
1, 2, 0, 0, 5:	$\frac{A \cdot B \cdot N_u \cdot \sqrt{(A^2 - B \cdot E \cdot A + N_u^2)^2}}{\sqrt{A^2 \cdot B^2 \cdot N_u^2 \cdot (A^2 - B \cdot E \cdot A + N_u^2)}}$
0, 0, 3, 0, 5:	$\frac{N_u \cdot \sqrt{[C + E - C \cdot (N_u^2 + 1) - 1]^2}}{\sqrt{N_u^2 \cdot (C \cdot N_u^2 - E + 1)}}$
1, 0, 3, 0, 5:	$\frac{A \cdot N_u \cdot \sqrt{[C \cdot (A^2 + N_u^2) - A \cdot (C + E - 1)]^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A - A \cdot C - A \cdot E + A^2 \cdot C + C \cdot N_u^2)}}$
0, 2, 3, 0, 5:	$\frac{B \cdot N_u \cdot \sqrt{[B \cdot (C + E - 1) - C \cdot (N_u^2 + 1)]^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (C \cdot N_u^2 + B + C - B \cdot C - B \cdot E)}}$
1, 2, 3, 0, 5:	$\frac{A \cdot B \cdot N_u \cdot \sqrt{[C \cdot (A^2 + N_u^2) - A \cdot B \cdot (C + E - 1)]^2}}{\sqrt{A^2 \cdot B^2 \cdot N_u^2 \cdot (A \cdot B + A^2 \cdot C + C \cdot N_u^2 - A \cdot B \cdot C - A \cdot B \cdot E)}}$

0, 0, 0, 4, 5:	$\frac{N_u \cdot \sqrt{(N_u^2 + D - E)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + D - E)}}$
1, 0, 0, 4, 5:	$\frac{A \cdot N_u \cdot \sqrt{[A^2 + N_u^2 - A \cdot (E - D + 1)]^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A^2 - A + N_u^2 + A \cdot D - A \cdot E)}}$
0, 2, 0, 4, 5:	$\frac{B \cdot N_u \cdot \sqrt{[N_u^2 - B \cdot (E - D + 1) + 1]^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 - B + B \cdot D - B \cdot E + 1)}}$
1, 2, 0, 4, 5:	$\frac{A \cdot B \cdot N_u \cdot \sqrt{[A^2 + N_u^2 - A \cdot B \cdot (E - D + 1)]^2}}{\sqrt{A^2 \cdot B^2 \cdot N_u^2 \cdot (A^2 + N_u^2 - A \cdot B + A \cdot B \cdot D - A \cdot B \cdot E)}}$
0, 0, 3, 4, 5:	$\frac{N_u \cdot \sqrt{[C - D + E - C \cdot (N_u^2 + 1)]^2}}{\sqrt{N_u^2 \cdot (C \cdot N_u^2 + D - E)}}$
1, 0, 3, 4, 5:	$\frac{A \cdot N_u \cdot \sqrt{[C \cdot (A^2 + N_u^2) - A \cdot (C - D + E)]^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A \cdot D - A \cdot C - A \cdot E + A^2 \cdot C + C \cdot N_u^2)}}$
0, 2, 3, 4, 5:	$\frac{B \cdot N_u \cdot \sqrt{[C \cdot (N_u^2 + 1) - B \cdot (C - D + E)]^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (C \cdot N_u^2 + C - B \cdot C + B \cdot D - B \cdot E)}}$
1, 2, 3, 4, 5:	$\frac{A \cdot B \cdot N_u \cdot \sqrt{[C \cdot (A^2 + N_u^2) - A \cdot B \cdot (C - D + E)]^2}}{(A^2 \cdot C + C \cdot N_u^2 - A \cdot B \cdot C + A \cdot B \cdot D - A \cdot B \cdot E) \cdot \sqrt{A^2 \cdot B^2 \cdot N_u^2}}$



Unit. $AB := 1$ Given. $N_1 := 1.96970$ $N_2 := 1.23232$ $N_3 := 1.52525$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$\frac{N_u \cdot \left(A^2 - B \cdot A + N_u^2\right)}{A \cdot B \cdot C} = 3.131245$$

$$Num := \frac{N_u \cdot \left(A^2 - B \cdot A + N_u^2\right)}{\sqrt{\left[N_u \cdot \left(A^2 - B \cdot A + N_u^2\right)\right]^2}}$$

$$Den := \frac{A \cdot B \cdot C}{\sqrt{\left(A \cdot B \cdot C\right)^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{N_u \cdot \sqrt{A^2 \cdot B^2 \cdot C^2} \cdot \left(A^2 - B \cdot A + N_u^2\right)}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot \left(A^2 - B \cdot A + N_u^2\right)^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:
$$\frac{N_u^3}{\sqrt{N_u^6}}$$

0, 0, 3:
$$\frac{N_u^3 \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^6}}$$

1, 0, 0:
$$\frac{N_u \cdot \sqrt{A^2} \cdot (A^2 - A + N_u^2)}{A \cdot \sqrt{N_u^2 \cdot (A^2 - A + N_u^2)^2}}$$

1, 0, 3:
$$\frac{N_u \cdot \sqrt{A^2 \cdot C^2} \cdot (A^2 - A + N_u^2)}{A \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 - A + N_u^2)^2}}$$

0, 2, 0:
$$\frac{N_u \cdot \sqrt{B^2} \cdot (N_u^2 - B + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 - B + 1)^2}}$$

0, 2, 3:
$$\frac{N_u \cdot \sqrt{B^2 \cdot C^2} \cdot (N_u^2 - B + 1)}{B \cdot C \cdot \sqrt{N_u^2 \cdot (N_u^2 - B + 1)^2}}$$

1, 2, 0:
$$\frac{N_u \cdot \sqrt{A^2 \cdot B^2} \cdot (A^2 - B \cdot A + N_u^2)}{A \cdot B \cdot \sqrt{N_u^2 \cdot (A^2 - B \cdot A + N_u^2)^2}}$$

1, 2, 3:
$$\frac{N_u \cdot \sqrt{A^2 \cdot B^2 \cdot C^2} \cdot (A^2 - B \cdot A + N_u^2)}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 - B \cdot A + N_u^2)^2}}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 0:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{A^4 \cdot (A + 1)^2}}{A^2 \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A + 1)}$$

0, 2:

$$\frac{N_u \cdot \sqrt{(B + 1)^2} \cdot (N_u^2 + 1)}{(B + 1) \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$$

1, 2:

$$\frac{N_u \cdot \sqrt{A^4 \cdot (A + B)^2} \cdot (A^2 + N_u^2)}{A^2 \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A + B)}$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u^3}{\sqrt{N_u^6}}$$

1, 0, 0:

$$\frac{N_u \cdot \sqrt{A^4} \cdot (A^2 - A + N_u^2)}{A^2 \cdot \sqrt{N_u^2 \cdot (A^2 - A + N_u^2)^2}}$$

0, 2, 0:

$$\frac{N_u \cdot (N_u^2 - B + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - B + 1)^2}}$$

1, 2, 0:

$$\frac{N_u \cdot \sqrt{A^4} \cdot (A^2 - B \cdot A + N_u^2)}{A^2 \cdot \sqrt{N_u^2 \cdot (A^2 - B \cdot A + N_u^2)^2}}$$

0, 0, 3:

$$\frac{N_u^3 \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^6}}$$

1, 0, 3:

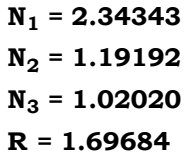
$$\frac{N_u \cdot \sqrt{A^4 \cdot C^2} \cdot (A^2 - A + N_u^2)}{A^2 \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 - A + N_u^2)^2}}$$

0, 2, 3:

$$\frac{N_u \cdot \sqrt{C^2} \cdot (N_u^2 - B + 1)}{C \cdot \sqrt{N_u^2 \cdot (N_u^2 - B + 1)^2}}$$

1, 2, 3:

$$\frac{N_u \cdot \sqrt{A^4 \cdot C^2} \cdot (A^2 - B \cdot A + N_u^2)}{A^2 \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 - B \cdot A + N_u^2)^2}}$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{B \cdot N_u^3}{A \cdot C \cdot (A^2 + N_u^2)} = 1.696829$$

$$\text{Num} := \frac{\mathbf{B} \cdot \mathbf{N}_u^3}{\sqrt{(\mathbf{B} \cdot \mathbf{N}_u^3)^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{B \cdot N_u^3 \cdot \sqrt{A^2 \cdot C^2 \cdot (A^2 + N_u^2)^2}}{A \cdot C \cdot \sqrt{B^2 \cdot N_u^6 \cdot (A^2 + N_u^2)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u^3 \cdot \sqrt{\left(N_u^2 + 1\right)^2}}{\sqrt{N_u^6 \cdot \left(N_u^2 + 1\right)}}$$

1, 0, 0:

$$\frac{N_u^3 \cdot \sqrt{A^2 \cdot \left(A^2 + N_u^2\right)^2}}{A \cdot \sqrt{N_u^6 \cdot \left(A^2 + N_u^2\right)}}$$

0, 2, 0:

$$\frac{B \cdot N_u^3 \cdot \sqrt{\left(N_u^2 + 1\right)^2}}{\sqrt{B^2 \cdot N_u^6 \cdot \left(N_u^2 + 1\right)}}$$

1, 2, 0:

$$\frac{B \cdot N_u^3 \cdot \sqrt{A^2 \cdot \left(A^2 + N_u^2\right)^2}}{A \cdot \sqrt{B^2 \cdot N_u^6 \cdot \left(A^2 + N_u^2\right)}}$$

0, 0, 3:

$$\frac{N_u^3 \cdot \sqrt{C^2 \cdot \left(N_u^2 + 1\right)^2}}{C \cdot \sqrt{N_u^6 \cdot \left(N_u^2 + 1\right)}}$$

1, 0, 3:

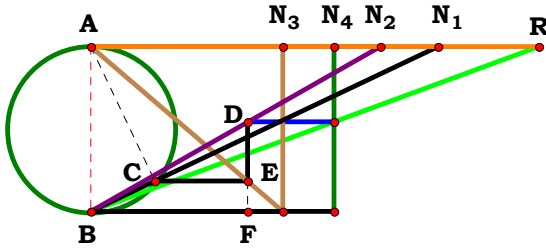
$$\frac{N_u^3 \cdot \sqrt{A^2 \cdot C^2 \cdot \left(A^2 + N_u^2\right)^2}}{A \cdot C \cdot \sqrt{N_u^6 \cdot \left(A^2 + N_u^2\right)}}$$

0, 2, 3:

$$\frac{B \cdot N_u^3 \cdot \sqrt{C^2 \cdot \left(N_u^2 + 1\right)^2}}{C \cdot \sqrt{B^2 \cdot N_u^6 \cdot \left(N_u^2 + 1\right)}}$$

1, 2, 3:

$$\frac{B \cdot N_u^3 \cdot \sqrt{A^2 \cdot C^2 \cdot \left(A^2 + N_u^2\right)^2}}{A \cdot C \cdot \sqrt{B^2 \cdot N_u^6 \cdot \left(A^2 + N_u^2\right)}}$$



$N_1 = 2.09922$
 $N_2 = 1.75053$
 $N_3 = 1.16443$
 $N_4 = 1.47201$
 $R = 2.71510$

Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.75053$ $N_3 := 1.16443$
 $N_4 := 1.47201$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$$\frac{C \cdot \left(A^2 + N_u^2\right)}{B \cdot D \cdot N_u} = 2.715097$$

$$Num := \frac{C \cdot \left(A^2 + N_u^2\right)}{\sqrt{\left[C \cdot \left(A^2 + N_u^2\right)\right]^2}}$$

$$Den := \frac{B \cdot D \cdot N_u}{\sqrt{\left(B \cdot D \cdot N_u\right)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{C \cdot \left(A^2 + N_u^2\right) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}{B \cdot D \cdot N_u \cdot \sqrt{C^2 \cdot \left(A^2 + N_u^2\right)^2}} = 0$$



For 4 variables there are 16 subsets.

$$0, 0, 0, 0: \frac{\sqrt{N_u^2 \cdot (N_u^2 + 1)}}{N_u \cdot \sqrt{(N_u^2 + 1)^2}}$$

$$1, 0, 0, 0: \frac{\sqrt{N_u^2 \cdot (A^2 + N_u^2)}}{N_u \cdot \sqrt{(A^2 + N_u^2)^2}}$$

$$0, 2, 0, 0: \frac{\sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 + 1)}}{B \cdot N_u \cdot \sqrt{(N_u^2 + 1)^2}}$$

$$1, 2, 0, 0: \frac{\sqrt{B^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}}{B \cdot N_u \cdot \sqrt{(A^2 + N_u^2)^2}}$$

$$0, 0, 3, 0: \frac{C \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)}}{N_u \cdot \sqrt{C^2 \cdot (N_u^2 + 1)^2}}$$

$$1, 0, 3, 0: \frac{C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)}}{N_u \cdot \sqrt{C^2 \cdot (A^2 + N_u^2)^2}}$$

$$0, 2, 3, 0: \frac{C \cdot \sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 + 1)}}{B \cdot N_u \cdot \sqrt{C^2 \cdot (N_u^2 + 1)^2}}$$

$$1, 2, 3, 0: \frac{C \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}}{B \cdot N_u \cdot \sqrt{C^2 \cdot (A^2 + N_u^2)^2}}$$

$$0, 0, 0, 4: \frac{\sqrt{D^2 \cdot N_u^2 \cdot (N_u^2 + 1)}}{D \cdot N_u \cdot \sqrt{(N_u^2 + 1)^2}}$$

$$1, 0, 0, 4: \frac{\sqrt{D^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}}{D \cdot N_u \cdot \sqrt{(A^2 + N_u^2)^2}}$$

$$0, 2, 0, 4: \frac{(N_u^2 + 1) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}{B \cdot D \cdot N_u \cdot \sqrt{(N_u^2 + 1)^2}}$$

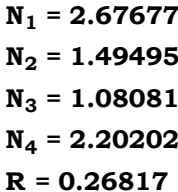
$$1, 2, 0, 4: \frac{(A^2 + N_u^2) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}{B \cdot D \cdot N_u \cdot \sqrt{(A^2 + N_u^2)^2}}$$

$$0, 0, 3, 4: \frac{C \cdot \sqrt{D^2 \cdot N_u^2 \cdot (N_u^2 + 1)}}{D \cdot N_u \cdot \sqrt{C^2 \cdot (N_u^2 + 1)^2}}$$

$$1, 0, 3, 4: \frac{C \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}}{D \cdot N_u \cdot \sqrt{C^2 \cdot (A^2 + N_u^2)^2}}$$

$$0, 2, 3, 4: \frac{C \cdot (N_u^2 + 1) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}{B \cdot D \cdot N_u \cdot \sqrt{C^2 \cdot (N_u^2 + 1)^2}}$$

$$1, 2, 3, 4: \frac{C \cdot (A^2 + N_u^2) \cdot \sqrt{B^2 \cdot D^2 \cdot N_u^2}}{B \cdot D \cdot N_u \cdot \sqrt{C^2 \cdot (A^2 + N_u^2)^2}}$$


$$N_4 := 2.20202$$

$$\text{Den} := \frac{\mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 + \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})^2}{\sqrt{\left[\mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 + \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})^2 \right]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

$$\frac{A^2 \cdot D^2 \cdot N_u}{A^2 \cdot C \cdot D^2 + C \cdot N_u^2 \cdot (A - B)^2} = 0.268168$$

$$\text{Num} := \frac{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_u}{\sqrt{(\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_u)^2}}$$

Num = 1 Den = 1 L = 1

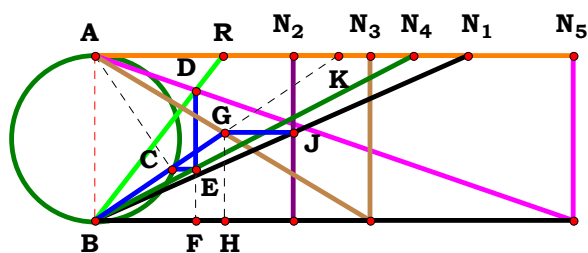
$$L - \frac{A^2 \cdot D^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot C \cdot D^2 + C \cdot N_u^2 \cdot (A - B)^2 \right]^2}}{C \cdot \left(A^2 \cdot D^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2 \right) \cdot \sqrt{A^4 \cdot D^4 \cdot N_u^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{A^2 \cdot N_u \cdot \sqrt{\left[A^2 + N_u^2 \cdot (A - 1)^2\right]^2}}{\sqrt{A^4 \cdot N_u^2 \cdot \left(A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot N_u^2 + N_u^2\right)}}$
0, 2, 0, 0:	$\frac{N_u \cdot \sqrt{\left[N_u^2 \cdot (B - 1)^2 + 1\right]^2}}{\sqrt{N_u^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2 + 1\right)}}$
1, 2, 0, 0:	$\frac{A^2 \cdot N_u \cdot \sqrt{\left[A^2 + N_u^2 \cdot (A - B)^2\right]^2}}{\sqrt{A^4 \cdot N_u^2 \cdot \left(A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right)}}$
0, 0, 3, 0:	$\frac{N_u \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^2}}$
1, 0, 3, 0:	$\frac{A^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot C + C \cdot N_u^2 \cdot (A - 1)^2\right]^2}}{C \cdot \sqrt{A^4 \cdot N_u^2 \cdot \left(A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot N_u^2 + N_u^2\right)}}$
0, 2, 3, 0:	$\frac{N_u \cdot \sqrt{\left[C + C \cdot N_u^2 \cdot (B - 1)^2\right]^2}}{C \cdot \sqrt{N_u^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2 + 1\right)}}$
1, 2, 3, 0:	$\frac{A^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot C + C \cdot N_u^2 \cdot (A - B)^2\right]^2}}{C \cdot \sqrt{A^4 \cdot N_u^2 \cdot \left(A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right)}}$

0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^4}}{\sqrt{D^4 \cdot N_u^2}}$
1, 0, 0, 4:	$\frac{A^2 \cdot D^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot D^2 + N_u^2 \cdot (A - 1)^2\right]^2}}{\sqrt{A^4 \cdot D^4 \cdot N_u^2 \cdot \left(A^2 \cdot D^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2\right)}}$
0, 2, 0, 4:	$\frac{D^2 \cdot N_u \cdot \sqrt{\left[D^2 + N_u^2 \cdot (B - 1)^2\right]^2}}{\sqrt{D^4 \cdot N_u^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + D^2 + N_u^2\right)}}$
1, 2, 0, 4:	$\frac{A^2 \cdot D^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot D^2 + N_u^2 \cdot (A - B)^2\right]^2}}{\sqrt{A^4 \cdot D^4 \cdot N_u^2 \cdot \left(A^2 \cdot D^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right)}}$
0, 0, 3, 4:	$\frac{N_u \cdot \sqrt{C^2 \cdot D^4}}{C \cdot \sqrt{D^4 \cdot N_u^2}}$
1, 0, 3, 4:	$\frac{A^2 \cdot D^2 \cdot N_u \cdot \sqrt{\left[C \cdot N_u^2 \cdot (A - 1)^2 + A^2 \cdot C \cdot D^2\right]^2}}{C \cdot \sqrt{A^4 \cdot D^4 \cdot N_u^2 \cdot \left(A^2 \cdot D^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2\right)}}$
0, 2, 3, 4:	$\frac{D^2 \cdot N_u \cdot \sqrt{\left[C \cdot D^2 + C \cdot N_u^2 \cdot (B - 1)^2\right]^2}}{C \cdot \sqrt{D^4 \cdot N_u^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + D^2 + N_u^2\right)}}$
1, 2, 3, 4:	$\frac{A^2 \cdot D^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot C \cdot D^2 + C \cdot N_u^2 \cdot (A - B)^2\right]^2}}{C \cdot \left(A^2 \cdot D^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right) \cdot \sqrt{A^4 \cdot D^4 \cdot N_u^2}}$



Unit. AB := 1 Given. $N_1 := 2.25419$ $N_2 := 1.19844$ $N_3 := 1.66809$
 $N_4 := 1.92724$ $N_5 := 2.89197$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$$\frac{A^2 \cdot C^2 \cdot N_u}{N_u^2 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot (D - E)} = 0.773071$$

$$\text{Num} := \frac{A^2 \cdot C^2 \cdot N_u}{\sqrt{(A^2 \cdot C^2 \cdot N_u)^2}}$$

$$\text{Den} := \frac{N_u^2 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot (D - E)}{\sqrt{[N_u^2 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot (D - E)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A^2 \cdot C^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot C^2 \cdot (D - E) + D \cdot N_u^2 \cdot (A - B)^2 \right]^2}}{\left[A^2 \cdot C^2 \cdot (D - E) + D \cdot N_u^2 \cdot (A - B)^2 \right] \cdot \sqrt{A^4 \cdot C^4 \cdot N_u^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	0	0, 0, 0, 4, 0:	$\frac{N_u \cdot \sqrt{(D-1)^2}}{(D-1) \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 0:	$\frac{A^2 \cdot \sqrt{N_u^4 \cdot (A-1)^4}}{N_u \cdot (A-1)^2 \cdot \sqrt{A^4 \cdot N_u^2}}$	1, 0, 0, 4, 0:	$\frac{A^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot (D-1) + D \cdot N_u^2 \cdot (A-1)^2\right]^2}}{\sqrt{A^4 \cdot N_u^2} \cdot \left[A^2 \cdot (D-1) + D \cdot N_u^2 \cdot (A-1)^2\right]}$
0, 2, 0, 0, 0:	$\frac{\sqrt{N_u^4 \cdot (B-1)^4}}{N_u \cdot (B-1)^2 \cdot \sqrt{N_u^2}}$	0, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{\left[D + D \cdot N_u^2 \cdot (B-1)^2 - 1\right]^2}}{\sqrt{N_u^2} \cdot \left[D + D \cdot N_u^2 \cdot (B-1)^2 - 1\right]}$
1, 2, 0, 0, 0:	$\frac{A^2 \cdot \sqrt{N_u^4 \cdot (A-B)^4}}{N_u \cdot \sqrt{A^4 \cdot N_u^2} \cdot (A-B)^2}$	1, 2, 0, 4, 0:	$\frac{A^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot (D-1) + D \cdot N_u^2 \cdot (A-B)^2\right]^2}}{\left[A^2 \cdot (D-1) + D \cdot N_u^2 \cdot (A-B)^2\right] \cdot \sqrt{A^4 \cdot N_u^2}}$
0, 0, 3, 0, 0:	0	0, 0, 3, 4, 0:	$\frac{N_u \cdot \sqrt{C^4 \cdot (D-1)^2}}{(D-1) \cdot \sqrt{C^4 \cdot N_u^2}}$
1, 0, 3, 0, 0:	$\frac{A^2 \cdot C^2 \cdot \sqrt{N_u^4 \cdot (A-1)^4}}{N_u \cdot (A-1)^2 \cdot \sqrt{A^4 \cdot C^4 \cdot N_u^2}}$	1, 0, 3, 4, 0:	$\frac{A^2 \cdot C^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot C^2 \cdot (D-1) + D \cdot N_u^2 \cdot (A-1)^2\right]^2}}{\left[A^2 \cdot C^2 \cdot (D-1) + D \cdot N_u^2 \cdot (A-1)^2\right] \cdot \sqrt{A^4 \cdot C^4 \cdot N_u^2}}$
0, 2, 3, 0, 0:	$\frac{C^2 \cdot \sqrt{N_u^4 \cdot (B-1)^4}}{N_u \cdot (B-1)^2 \cdot \sqrt{C^4 \cdot N_u^2}}$	0, 2, 3, 4, 0:	$\frac{C^2 \cdot N_u \cdot \sqrt{\left[C^2 \cdot (D-1) + D \cdot N_u^2 \cdot (B-1)^2\right]^2}}{\sqrt{C^4 \cdot N_u^2} \cdot \left[C^2 \cdot (D-1) + D \cdot N_u^2 \cdot (B-1)^2\right]}$
1, 2, 3, 0, 0:	$\frac{A^2 \cdot C^2 \cdot \sqrt{N_u^4 \cdot (A-B)^4}}{N_u \cdot (A-B)^2 \cdot \sqrt{A^4 \cdot C^4 \cdot N_u^2}}$	1, 2, 3, 4, 0:	$\frac{A^2 \cdot C^2 \cdot N_u \cdot \sqrt{\left[A^2 \cdot C^2 \cdot (D-1) + D \cdot N_u^2 \cdot (A-B)^2\right]^2}}{\left[A^2 \cdot C^2 \cdot (D-1) + D \cdot N_u^2 \cdot (A-B)^2\right] \cdot \sqrt{A^4 \cdot C^4 \cdot N_u^2}}$

$$0, 0, 0, 0, 5: \frac{N_u \cdot \sqrt{(E-1)^2}}{(E-1) \cdot \sqrt{N_u^2}}$$

$$1, 0, 0, 0, 5: \frac{A^2 \cdot N_u \cdot \sqrt{[A^2 \cdot (E-1) - N_u^2 \cdot (A-1)^2]^2}}{[A^2 \cdot (E-1) - N_u^2 \cdot (A-1)^2] \cdot \sqrt{A^4 \cdot N_u^2}}$$

$$0, 2, 0, 0, 5: \frac{N_u \cdot \sqrt{[N_u^2 \cdot (B-1)^2 - E + 1]^2}}{\sqrt{N_u^2} \cdot [N_u^2 \cdot (B-1)^2 - E + 1]}$$

$$1, 2, 0, 0, 5: \frac{A^2 \cdot N_u \cdot \sqrt{[A^2 \cdot (E-1) - N_u^2 \cdot (A-B)^2]^2}}{\sqrt{A^4 \cdot N_u^2} \cdot [A^2 \cdot (E-1) - N_u^2 \cdot (A-B)^2]}$$

$$0, 0, 3, 0, 5: \frac{N_u \cdot \sqrt{C^4 \cdot (E-1)^2}}{(E-1) \cdot \sqrt{C^4 \cdot N_u^2}}$$

$$1, 0, 3, 0, 5: \frac{A^2 \cdot C^2 \cdot N_u \cdot \sqrt{[N_u^2 \cdot (A-1)^2 - A^2 \cdot C^2 \cdot (E-1)]^2}}{[N_u^2 \cdot (A-1)^2 - A^2 \cdot C^2 \cdot (E-1)] \cdot \sqrt{A^4 \cdot C^4 \cdot N_u^2}}$$

$$0, 2, 3, 0, 5: \frac{C^2 \cdot N_u \cdot \sqrt{[C^2 \cdot (E-1) - N_u^2 \cdot (B-1)^2]^2}}{[C^2 \cdot (E-1) - N_u^2 \cdot (B-1)^2] \cdot \sqrt{C^4 \cdot N_u^2}}$$

$$1, 2, 3, 0, 5: \frac{A^2 \cdot C^2 \cdot N_u \cdot \sqrt{[N_u^2 \cdot (A-B)^2 - A^2 \cdot C^2 \cdot (E-1)]^2}}{[N_u^2 \cdot (A-B)^2 - A^2 \cdot C^2 \cdot (E-1)] \cdot \sqrt{A^4 \cdot C^4 \cdot N_u^2}}$$

$$0, 0, 0, 4, 5: \frac{N_u \cdot \sqrt{(D-E)^2}}{\sqrt{N_u^2} \cdot (D-E)}$$

$$1, 0, 0, 4, 5: \frac{A^2 \cdot N_u \cdot \sqrt{[A^2 \cdot (D-E) + D \cdot N_u^2 \cdot (A-1)^2]^2}}{[A^2 \cdot (D-E) + D \cdot N_u^2 \cdot (A-1)^2] \cdot \sqrt{A^4 \cdot N_u^2}}$$

$$0, 2, 0, 4, 5: \frac{N_u \cdot \sqrt{[D-E + D \cdot N_u^2 \cdot (B-1)^2]^2}}{\sqrt{N_u^2} \cdot [D-E + D \cdot N_u^2 \cdot (B-1)^2]}$$

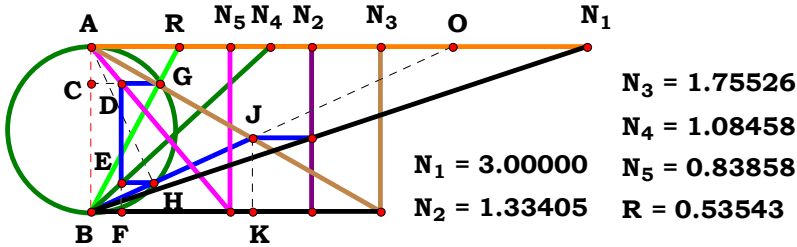
$$1, 2, 0, 4, 5: \frac{A^2 \cdot N_u \cdot \sqrt{[A^2 \cdot (D-E) + D \cdot N_u^2 \cdot (A-B)^2]^2}}{\sqrt{A^4 \cdot N_u^2} \cdot [A^2 \cdot (D-E) + D \cdot N_u^2 \cdot (A-B)^2]}$$

$$0, 0, 3, 4, 5: \frac{N_u \cdot \sqrt{C^4 \cdot (D-E)^2}}{\sqrt{C^4 \cdot N_u^2} \cdot (D-E)}$$

$$1, 0, 3, 4, 5: \frac{A^2 \cdot C^2 \cdot N_u \cdot \sqrt{[D \cdot N_u^2 \cdot (A-1)^2 + A^2 \cdot C^2 \cdot (D-E)]^2}}{[D \cdot N_u^2 \cdot (A-1)^2 + A^2 \cdot C^2 \cdot (D-E)] \cdot \sqrt{A^4 \cdot C^4 \cdot N_u^2}}$$

$$0, 2, 3, 4, 5: \frac{C^2 \cdot N_u \cdot \sqrt{[C^2 \cdot (D-E) + D \cdot N_u^2 \cdot (B-1)^2]^2}}{[C^2 \cdot (D-E) + D \cdot N_u^2 \cdot (B-1)^2] \cdot \sqrt{C^4 \cdot N_u^2}}$$

$$1, 2, 3, 4, 5: \frac{A^2 \cdot C^2 \cdot N_u \cdot \sqrt{[A^2 \cdot C^2 \cdot (D-E) + D \cdot N_u^2 \cdot (A-B)^2]^2}}{[A^2 \cdot C^2 \cdot (D-E) + D \cdot N_u^2 \cdot (A-B)^2] \cdot \sqrt{A^4 \cdot C^4 \cdot N_u^2}}$$



Descriptions.

$$\frac{A \cdot C \cdot \sqrt{E} \cdot N_u^3 \cdot \sqrt{N_u^2 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot (D - E)}}{A^2 \cdot N_u^3 \cdot [C^2 \cdot (D - E) + D \cdot N_u^2] - B \cdot D \cdot N_u^5 \cdot (2 \cdot A - B)} = 0.535436$$

$$\text{Den} := \frac{A^2 \cdot N_u^3 \cdot [C^2 \cdot (D - E) + D \cdot N_u^2] - B \cdot D \cdot N_u^5 \cdot (2 \cdot A - B)}{\sqrt{[A^2 \cdot N_u^3 \cdot [C^2 \cdot (D - E) + D \cdot N_u^2] - B \cdot D \cdot N_u^5 \cdot (2 \cdot A - B)]^2}}$$

$$\text{Num} := \frac{A \cdot C \cdot \sqrt{E} \cdot N_u^3 \cdot \sqrt{N_u^2 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot (D - E)}}{\sqrt{[A \cdot C \cdot \sqrt{E} \cdot N_u^3 \cdot \sqrt{N_u^2 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot (D - E)}]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{A \cdot C \cdot \sqrt{E} \cdot \sqrt{A^2 \cdot C^2 \cdot (D - E) + D \cdot N_u^2 \cdot (A - B)^2} \cdot \sqrt{[A^2 \cdot N_u^3 \cdot [(D - E) \cdot C^2 + D \cdot N_u^2] + B \cdot D \cdot N_u^5 \cdot (B - 2 \cdot A)]^2}}{(A^2 \cdot C^2 \cdot D - A^2 \cdot C^2 \cdot E + A^2 \cdot D \cdot N_u^2 + B^2 \cdot D \cdot N_u^2 - 2 \cdot A \cdot B \cdot D \cdot N_u^2) \cdot \sqrt{A^2 \cdot C^2 \cdot E \cdot N_u^6 \cdot [A^2 \cdot C^2 \cdot (D - E) + D \cdot N_u^2 \cdot (A - B)^2]}} = 0$$

Unit. $AB := 1$ Given. $N_1 := 3$ $N_2 := 1.33405$ $N_3 := 1.75526$
 $N_4 := 1.08458$ $N_5 := .83858$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0: 0

1, 0, 0, 0, 0:
$$\frac{A \cdot \sqrt{\left[A^2 \cdot N_u^5 + B \cdot N_u^5 \cdot (B - 2 \cdot A)\right]^2} \cdot \sqrt{N_u^2 \cdot (A - B)^2}}{\sqrt{A^2 \cdot N_u^8 \cdot (A - B)^2} \cdot \left(A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right)}$$

0, 2, 0, 0, 0:
$$\frac{\sqrt{\left[N_u^5 + B \cdot N_u^5 \cdot (B - 2)\right]^2} \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}{\sqrt{N_u^8 \cdot (B - 1)^2} \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2\right)}$$

1, 2, 0, 0, 0:
$$\frac{A \cdot \sqrt{\left[A^2 \cdot N_u^5 + B \cdot N_u^5 \cdot (B - 2 \cdot A)\right]^2} \cdot \sqrt{N_u^2 \cdot (A - B)^2}}{\sqrt{A^2 \cdot N_u^8 \cdot (A - B)^2} \cdot \left(A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right)}$$

0, 0, 3, 0, 0: 0

1, 0, 3, 0, 0:
$$\frac{A \cdot C \cdot \sqrt{\left[A^2 \cdot N_u^5 - N_u^5 \cdot (2 \cdot A - 1)\right]^2} \cdot \sqrt{N_u^2 \cdot (A - 1)^2}}{\left(A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2\right) \cdot \sqrt{A^2 \cdot C^2 \cdot N_u^8 \cdot (A - 1)^2}}$$

0, 2, 3, 0, 0:
$$\frac{C \cdot \sqrt{\left[N_u^5 + B \cdot N_u^5 \cdot (B - 2)\right]^2} \cdot \sqrt{N_u^2 \cdot (B - 1)^2}}{\left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2\right) \cdot \sqrt{C^2 \cdot N_u^8 \cdot (B - 1)^2}}$$

1, 2, 3, 0, 0:
$$\frac{A \cdot C \cdot \sqrt{\left[A^2 \cdot N_u^5 + B \cdot N_u^5 \cdot (B - 2 \cdot A)\right]^2} \cdot \sqrt{N_u^2 \cdot (A - B)^2}}{\left(A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right) \cdot \sqrt{A^2 \cdot C^2 \cdot N_u^8 \cdot (A - B)^2}}$$

$$0, 0, 0, 4, 0: \frac{\sqrt{\left[\mathbf{N_u}^3 \cdot \left(\mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{D} - 1\right) - \mathbf{D} \cdot \mathbf{N_u}^5\right]^2}}{\sqrt{\mathbf{D} - 1} \cdot \sqrt{\mathbf{N_u}^6 \cdot (\mathbf{D} - 1)}}$$

$$1, 0, 0, 4, 0: \frac{\mathbf{A} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{N_u}^5 \cdot (2 \cdot \mathbf{A} - 1) - \mathbf{A}^2 \cdot \mathbf{N_u}^3 \cdot \left(\mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{D} - 1\right)\right]^2} \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - 1)^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^6 \cdot \left[\mathbf{A}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - 1)^2\right]} \cdot \left(\mathbf{A}^2 \cdot \mathbf{D} - \mathbf{A}^2 + \mathbf{D} \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N_u}^2\right)}$$

$$0, 2, 0, 4, 0: \frac{\sqrt{\left[\mathbf{N_u}^3 \cdot \left(\mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{D} - 1\right) + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u}^5 \cdot (\mathbf{B} - 2)\right]^2} \cdot \sqrt{\mathbf{D} + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{B} - 1)^2 - 1}}{\sqrt{\mathbf{N_u}^6 \cdot \left[\mathbf{D} + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{B} - 1)^2 - 1\right]} \cdot \left(\mathbf{D} \cdot \mathbf{B}^2 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{D} \cdot \mathbf{B} \cdot \mathbf{N_u}^2 + \mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{D} - 1\right)}$$

$$1, 2, 0, 4, 0: \frac{\mathbf{A} \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B})^2} \cdot \sqrt{\left[\mathbf{A}^2 \cdot \mathbf{N_u}^3 \cdot \left(\mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{D} - 1\right) + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u}^5 \cdot (\mathbf{B} - 2 \cdot \mathbf{A})\right]^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^6 \cdot \left[\mathbf{A}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B})^2\right]} \cdot \left(\mathbf{A}^2 \cdot \mathbf{D} - \mathbf{A}^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u}^2\right)}$$

$$0, 0, 3, 4, 0: -\frac{\mathbf{C} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{D} - 1)} \cdot \sqrt{\left[\mathbf{N_u}^3 \cdot \left[(\mathbf{D} - 1) \cdot \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N_u}^2\right] - \mathbf{D} \cdot \mathbf{N_u}^5\right]^2}}{\left(\mathbf{C}^2 - \mathbf{C}^2 \cdot \mathbf{D}\right) \cdot \sqrt{\mathbf{C}^4 \cdot \mathbf{N_u}^6 \cdot (\mathbf{D} - 1)}}$$

$$1, 0, 3, 4, 0: \frac{\mathbf{A} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - 1)^2} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{N_u}^5 \cdot (2 \cdot \mathbf{A} - 1) - \mathbf{A}^2 \cdot \mathbf{N_u}^3 \cdot \left[(\mathbf{D} - 1) \cdot \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N_u}^2\right]\right]^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^6 \cdot \left[\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - 1)^2\right]} \cdot \left(\mathbf{D} \cdot \mathbf{N_u}^2 - \mathbf{A}^2 \cdot \mathbf{C}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N_u}^2\right)}$$

$$0, 2, 3, 4, 0: \frac{\mathbf{C} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{B} - 1)^2} \cdot \sqrt{\left[\mathbf{N_u}^3 \cdot \left[(\mathbf{D} - 1) \cdot \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N_u}^2\right] + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u}^5 \cdot (\mathbf{B} - 2)\right]^2}}{\sqrt{\mathbf{C}^2 \cdot \mathbf{N_u}^6 \cdot \left[\mathbf{C}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{B} - 1)^2\right]} \cdot \left(\mathbf{C}^2 \cdot \mathbf{D} - \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N_u}^2\right)}$$

$$1, 2, 3, 4, 0: \frac{\mathbf{A} \cdot \mathbf{C} \cdot \sqrt{\left[\mathbf{A}^2 \cdot \mathbf{N_u}^3 \cdot \left[(\mathbf{D} - 1) \cdot \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N_u}^2\right] + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u}^5 \cdot (\mathbf{B} - 2 \cdot \mathbf{A})\right]^2} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B})^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^6 \cdot \left[\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B})^2\right]} \cdot \left(\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} - \mathbf{A}^2 \cdot \mathbf{C}^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u}^2\right)}$$

Amos

$$0, 0, 0, 0, 5: \frac{\sqrt{E} \cdot \sqrt{\left[N_u^5 - N_u^3 \cdot (N_u^2 - E + 1) \right]^2}}{\sqrt{1 - E} \cdot \sqrt{-E \cdot N_u^6 \cdot (E - 1)}}$$

$$1, 0, 0, 0, 5: \frac{A \cdot \sqrt{E} \cdot \sqrt{N_u^2 \cdot (A - 1)^2 - A^2 \cdot (E - 1)} \cdot \sqrt{\left[N_u^5 \cdot (2 \cdot A - 1) - A^2 \cdot N_u^3 \cdot (N_u^2 - E + 1) \right]^2}}{\sqrt{-A^2 \cdot E \cdot N_u^6 \cdot \left[A^2 \cdot (E - 1) - N_u^2 \cdot (A - 1)^2 \right]} \cdot \left(A^2 + N_u^2 + A^2 \cdot N_u^2 - A^2 \cdot E - 2 \cdot A \cdot N_u^2 \right)}$$

$$0, 2, 0, 0, 5: \frac{\sqrt{E} \cdot \sqrt{\left[N_u^3 \cdot (N_u^2 - E + 1) + B \cdot N_u^5 \cdot (B - 2) \right]^2} \cdot \sqrt{N_u^2 \cdot (B - 1)^2 - E + 1}}{\sqrt{E \cdot N_u^6 \cdot \left[N_u^2 \cdot (B - 1)^2 - E + 1 \right]} \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2 - E + 1 \right)}$$

$$1, 2, 0, 0, 5: \frac{A \cdot \sqrt{E} \cdot \sqrt{\left[A^2 \cdot N_u^3 \cdot (N_u^2 - E + 1) + B \cdot N_u^5 \cdot (B - 2 \cdot A) \right]^2} \cdot \sqrt{N_u^2 \cdot (A - B)^2 - A^2 \cdot (E - 1)}}{\sqrt{-A^2 \cdot E \cdot N_u^6 \cdot \left[A^2 \cdot (E - 1) - N_u^2 \cdot (A - B)^2 \right]} \cdot \left(A^2 + A^2 \cdot N_u^2 + B^2 \cdot N_u^2 - A^2 \cdot E - 2 \cdot A \cdot B \cdot N_u^2 \right)}$$

$$0, 0, 3, 0, 5: \frac{C \cdot \sqrt{E} \cdot \sqrt{-C^2 \cdot (E - 1)} \cdot \sqrt{\left[N_u^5 - N_u^3 \cdot \left[N_u^2 - C^2 \cdot (E - 1) \right] \right]^2}}{\left(C^2 - C^2 \cdot E \right) \cdot \sqrt{-C^4 \cdot E \cdot N_u^6 \cdot (E - 1)}}$$

$$1, 0, 3, 0, 5: \frac{A \cdot C \cdot \sqrt{E} \cdot \sqrt{\left[N_u^5 \cdot (2 \cdot A - 1) - A^2 \cdot N_u^3 \cdot \left[N_u^2 - C^2 \cdot (E - 1) \right] \right]^2} \cdot \sqrt{N_u^2 \cdot (A - 1)^2 - A^2 \cdot C^2 \cdot (E - 1)}}{\left(N_u^2 + A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 - A^2 \cdot C^2 \cdot E \right) \cdot \sqrt{A^2 \cdot C^2 \cdot E \cdot N_u^6 \cdot \left[N_u^2 \cdot (A - 1)^2 - A^2 \cdot C^2 \cdot (E - 1) \right]}}$$

$$0, 2, 3, 0, 5: \frac{C \cdot \sqrt{E} \cdot \sqrt{N_u^2 \cdot (B - 1)^2 - C^2 \cdot (E - 1)} \cdot \sqrt{\left[N_u^3 \cdot \left[N_u^2 - C^2 \cdot (E - 1) \right] + B \cdot N_u^5 \cdot (B - 2) \right]^2}}{\sqrt{-C^2 \cdot E \cdot N_u^6 \cdot \left[C^2 \cdot (E - 1) - N_u^2 \cdot (B - 1)^2 \right]} \cdot \left(C^2 + N_u^2 + B^2 \cdot N_u^2 - C^2 \cdot E - 2 \cdot B \cdot N_u^2 \right)}$$

$$1, 2, 3, 0, 5: \frac{A \cdot C \cdot \sqrt{E} \cdot \sqrt{\left[B \cdot N_u^5 \cdot (B - 2 \cdot A) + A^2 \cdot N_u^3 \cdot \left[N_u^2 - C^2 \cdot (E - 1) \right] \right]^2} \cdot \sqrt{N_u^2 \cdot (A - B)^2 - A^2 \cdot C^2 \cdot (E - 1)}}{\left(A^2 \cdot C^2 + A^2 \cdot N_u^2 + B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 - A^2 \cdot C^2 \cdot E \right) \cdot \sqrt{A^2 \cdot C^2 \cdot E \cdot N_u^6 \cdot \left[N_u^2 \cdot (A - B)^2 - A^2 \cdot C^2 \cdot (E - 1) \right]}}$$



$$\frac{\sqrt{\mathbf{E}} \cdot \sqrt{\left[\mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{D} - \mathbf{E}) - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^5 \right]^2}}{\sqrt{\mathbf{D} - \mathbf{E}} \cdot \sqrt{\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}^6 \cdot (\mathbf{D} - \mathbf{E})}}$$

$$1, 0, 0, 4, 5: \frac{\mathbf{A} \cdot \sqrt{\mathbf{E}} \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{D} - \mathbf{E}) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - 1)^2} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^5 \cdot (2 \cdot \mathbf{A} - 1) - \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{D} - \mathbf{E}) \right]^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}^6} \cdot \left[\mathbf{A}^2 \cdot (\mathbf{D} - \mathbf{E}) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - 1)^2 \right] \cdot (\mathbf{A}^2 \cdot \mathbf{D} - \mathbf{A}^2 \cdot \mathbf{E} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2)}$$

$$\mathbf{0, 2, 0, 4, 5:} \quad \frac{\sqrt{\mathbf{E}} \cdot \sqrt{\left[\mathbf{N_u}^3 \cdot (\mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{D} - \mathbf{E}) + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u}^5 \cdot (\mathbf{B} - 2) \right]^2} \cdot \sqrt{\mathbf{D} - \mathbf{E} + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{B} - 1)^2}}{\sqrt{\mathbf{E} \cdot \mathbf{N_u}^6 \cdot \left[\mathbf{D} - \mathbf{E} + \mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{B} - 1)^2 \right] \cdot (\mathbf{D} \cdot \mathbf{B}^2 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{D} \cdot \mathbf{B} \cdot \mathbf{N_u}^2 + \mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{D} - \mathbf{E})}}$$

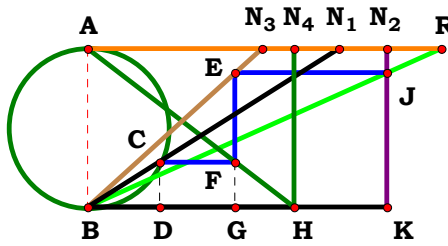
$$\frac{1, 2, 0, 4, 5: \quad \mathbf{A} \cdot \sqrt{\mathbf{E}} \cdot \sqrt{\left[\mathbf{A}^2 \cdot \mathbf{N}_u^3 \cdot \left(\mathbf{D} \cdot \mathbf{N}_u^2 + \mathbf{D} - \mathbf{E} \right) + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_u^5 \cdot \left(\mathbf{B} - 2 \cdot \mathbf{A} \right) \right]^2} \cdot \sqrt{\mathbf{A}^2 \cdot \left(\mathbf{D} - \mathbf{E} \right) + \mathbf{D} \cdot \mathbf{N}_u^2 \cdot \left(\mathbf{A} - \mathbf{B} \right)^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{E} \cdot \mathbf{N}_u^6 \cdot \left[\mathbf{A}^2 \cdot \left(\mathbf{D} - \mathbf{E} \right) + \mathbf{D} \cdot \mathbf{N}_u^2 \cdot \left(\mathbf{A} - \mathbf{B} \right)^2 \right]} \cdot \left(\mathbf{A}^2 \cdot \mathbf{D} - \mathbf{A}^2 \cdot \mathbf{E} + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_u^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N}_u^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_u^2 \right)}$$

$$\mathbf{0}, \mathbf{0}, \mathbf{3}, \mathbf{4}, \mathbf{5}: \frac{\mathbf{C} \cdot \sqrt{\mathbf{E}} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E})} \cdot \sqrt{\left[\mathbf{N}_{\mathbf{u}}^3 \cdot \left[(\mathbf{D} - \mathbf{E}) \cdot \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right] - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^5 \right]^2}}{(\mathbf{C}^2 \cdot \mathbf{D} - \mathbf{C}^2 \cdot \mathbf{E}) \cdot \sqrt{\mathbf{C}^4 \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}^6 \cdot (\mathbf{D} - \mathbf{E})}}$$

$$\frac{1, 0, 3, 4, 5: \quad \mathbf{A} \cdot \mathbf{C} \cdot \sqrt{\mathbf{E}} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^5 \cdot (2 \cdot \mathbf{A} - 1) - \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot \left[(\mathbf{D} - \mathbf{E}) \cdot \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right] \right]^2} \cdot \sqrt{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - 1)^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E})}}{\left(\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} - \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{E} + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}^6} \cdot \left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - 1)^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E}) \right]}$$

$$0, 2, 3, 4, 5: \frac{\mathbf{C} \cdot \sqrt{\mathbf{E}} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E}) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - 1)^2} \cdot \sqrt{\left[\mathbf{N}_{\mathbf{u}}^3 \cdot \left[(\mathbf{D} - \mathbf{E}) \cdot \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right] + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^5 \cdot (\mathbf{B} - 2) \right]^2}}{\sqrt{\mathbf{C}^2 \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}^6 \cdot \left[\mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E}) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - 1)^2 \right]} \cdot \left(\mathbf{C}^2 \cdot \mathbf{D} - \mathbf{C}^2 \cdot \mathbf{E} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right)}$$

$$\frac{1, 2, 3, 4, 5: \quad \mathbf{A} \cdot \mathbf{C} \cdot \sqrt{\mathbf{E}} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E}) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})^2} \cdot \sqrt{\left[\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot \left[(\mathbf{D} - \mathbf{E}) \cdot \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right] + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^5 \cdot (\mathbf{B} - 2 \cdot \mathbf{A}) \right]^2}}{\left(\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} - \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{E} + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}^6} \cdot \left[\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E}) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})^2 \right]}$$



$N_1 = 1.58586$
 $N_2 = 1.88889$
 $N_3 = 1.10101$
 $N_4 = 1.30303$
 $R = 2.23066$

Unit. $AB := 1$ Given. $N_1 := 1.58586$ $N_2 := 1.88889$ $N_3 := 1.10101$
 $N_4 := 1.30303$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{D \cdot (A^2 + N_u^2)}{B \cdot C \cdot N_u} = 2.230659$$

$$Num := \frac{D \cdot (A^2 + N_u^2)}{\sqrt{[D \cdot (A^2 + N_u^2)]^2}}$$

$$Den := \frac{B \cdot C \cdot N_u}{\sqrt{(B \cdot C \cdot N_u)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{D \cdot (A^2 + N_u^2) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}{B \cdot C \cdot N_u \cdot \sqrt{D^2 \cdot (A^2 + N_u^2)^2}} = 0$$



For 4 variables there are 16 subsets.

$$0, 0, 0, 0: \frac{\sqrt{N_u^2 \cdot (N_u^2 + 1)}}{N_u \cdot \sqrt{(N_u^2 + 1)^2}}$$

$$1, 0, 0, 0: \frac{\sqrt{N_u^2 \cdot (A^2 + N_u^2)}}{N_u \cdot \sqrt{(A^2 + N_u^2)^2}}$$

$$0, 2, 0, 0: \frac{\sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 + 1)}}{B \cdot N_u \cdot \sqrt{(N_u^2 + 1)^2}}$$

$$1, 2, 0, 0: \frac{\sqrt{B^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}}{B \cdot N_u \cdot \sqrt{(A^2 + N_u^2)^2}}$$

$$0, 0, 3, 0: \frac{\sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)}}{C \cdot N_u \cdot \sqrt{(N_u^2 + 1)^2}}$$

$$1, 0, 3, 0: \frac{\sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}}{C \cdot N_u \cdot \sqrt{(A^2 + N_u^2)^2}}$$

$$0, 2, 3, 0: \frac{(N_u^2 + 1) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}{B \cdot C \cdot N_u \cdot \sqrt{(N_u^2 + 1)^2}}$$

$$1, 2, 3, 0: \frac{(A^2 + N_u^2) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}{B \cdot C \cdot N_u \cdot \sqrt{(A^2 + N_u^2)^2}}$$

$$0, 0, 0, 4: \frac{D \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)}}{N_u \cdot \sqrt{D^2 \cdot (N_u^2 + 1)^2}}$$

$$1, 0, 0, 4: \frac{D \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)}}{N_u \cdot \sqrt{D^2 \cdot (A^2 + N_u^2)^2}}$$

$$0, 2, 0, 4: \frac{D \cdot \sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 + 1)}}{B \cdot N_u \cdot \sqrt{D^2 \cdot (N_u^2 + 1)^2}}$$

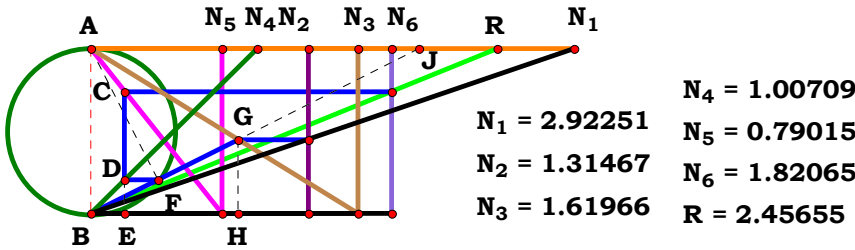
$$1, 2, 0, 4: \frac{D \cdot \sqrt{B^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}}{B \cdot N_u \cdot \sqrt{D^2 \cdot (A^2 + N_u^2)^2}}$$

$$0, 0, 3, 4: \frac{D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)}}{C \cdot N_u \cdot \sqrt{D^2 \cdot (N_u^2 + 1)^2}}$$

$$1, 0, 3, 4: \frac{D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)}}{C \cdot N_u \cdot \sqrt{D^2 \cdot (A^2 + N_u^2)^2}}$$

$$0, 2, 3, 4: \frac{D \cdot (N_u^2 + 1) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}{B \cdot C \cdot N_u \cdot \sqrt{D^2 \cdot (N_u^2 + 1)^2}}$$

$$1, 2, 3, 4: \frac{D \cdot (A^2 + N_u^2) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}{B \cdot C \cdot N_u \cdot \sqrt{D^2 \cdot (A^2 + N_u^2)^2}}$$



Unit.

$AB := 1$

Given.

$N_1 := 2.92251$

$N_2 := 1.31467$

$N_3 := 1.61966$

$N_4 := 1.00709$

$N_5 := .79015$

$N_6 := 1.82065$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u^3 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot D \cdot N_u}{N_u^2 \cdot D \cdot F \cdot (A - B)^2 + A^2 \cdot C^2 \cdot F \cdot (D - E)} = 2.456551$$

$$\text{Num} := \frac{N_u^3 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot D \cdot N_u}{\sqrt{\left[N_u^3 \cdot D \cdot (A - B)^2 + A^2 \cdot C^2 \cdot D \cdot N_u\right]^2}}$$

$$\text{Den} := \frac{N_u^2 \cdot D \cdot F \cdot (A - B)^2 + A^2 \cdot C^2 \cdot F \cdot (D - E)}{\sqrt{\left[N_u^2 \cdot D \cdot F \cdot (A - B)^2 + A^2 \cdot C^2 \cdot F \cdot (D - E)\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1

Den = 1

L = 1

$$L - \frac{\sqrt{\left[A^2 \cdot C^2 \cdot F \cdot (D - E) + D \cdot F \cdot N_u^2 \cdot (A - B)^2\right]^2} \cdot D \cdot N_u \cdot \left(A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right)}{F \cdot \left(A^2 \cdot C^2 \cdot D - A^2 \cdot C^2 \cdot E + A^2 \cdot D \cdot N_u^2 + B^2 \cdot D \cdot N_u^2 - 2 \cdot A \cdot B \cdot D \cdot N_u^2\right) \cdot \sqrt{\left[D \cdot N_u^3 \cdot (A - B)^2 + A^2 \cdot C^2 \cdot D \cdot N_u\right]^2}} = 0$$



For 6 variables there are 64 subsets.

0, 0, 0, 0, 0, 0: 0

1, 0, 0, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{N_u^4 \cdot (A-1)^4} \cdot (A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot N_u^2 + N_u^2)}{\sqrt{[N_u^3 \cdot (A-1)^2 + A^2 \cdot N_u]^2} \cdot (A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2)}$$

0, 2, 0, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{N_u^4 \cdot (B-1)^4} \cdot (B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2 + 1)}{\sqrt{[N_u + N_u^3 \cdot (B-1)^2]^2} \cdot (B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2)}$$

1, 2, 0, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{N_u^4 \cdot (A-B)^4} \cdot (A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2)}{\sqrt{[N_u^3 \cdot (A-B)^2 + A^2 \cdot N_u]^2} \cdot (A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2)}$$

0, 0, 3, 0, 0, 0: 0

1, 0, 3, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{N_u^4 \cdot (A-1)^4} \cdot (A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2)}{\sqrt{[N_u^3 \cdot (A-1)^2 + A^2 \cdot C^2 \cdot N_u]^2} \cdot (A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2)}$$

0, 2, 3, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{N_u^4 \cdot (B-1)^4} \cdot (B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + C^2 + N_u^2)}{\sqrt{[N_u^3 \cdot (B-1)^2 + C^2 \cdot N_u]^2} \cdot (B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2)}$$

1, 2, 3, 0, 0, 0:
$$\frac{N_u \cdot \sqrt{N_u^4 \cdot (A-B)^4} \cdot (A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2)}{\sqrt{[N_u^3 \cdot (A-B)^2 + A^2 \cdot C^2 \cdot N_u]^2} \cdot (A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2)}$$



[illegible]

0, 0, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{(E-1)^2}}{(E-1) \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{\left[A^2 \cdot (E-1) - N_u^2 \cdot (A-1)^2\right]^2 \cdot \left(A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot N_u^2 + N_u^2\right)}}{\sqrt{\left[N_u^3 \cdot (A-1)^2 + A^2 \cdot N_u\right]^2 \cdot \left(A^2 + N_u^2 + A^2 \cdot N_u^2 - A^2 \cdot E - 2 \cdot A \cdot N_u^2\right)}}$
0, 2, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{\left[N_u^2 \cdot (B-1)^2 - E + 1\right]^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2 + 1\right)}}{\sqrt{\left[N_u + N_u^3 \cdot (B-1)^2\right]^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2 - E + 1\right)}}$
1, 2, 0, 0, 5, 0:	$\frac{N_u \cdot \sqrt{\left[A^2 \cdot (E-1) - N_u^2 \cdot (A-B)^2\right]^2 \cdot \left(A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right)}}{\sqrt{\left[N_u^3 \cdot (A-B)^2 + A^2 \cdot N_u\right]^2 \cdot \left(A^2 + A^2 \cdot N_u^2 + B^2 \cdot N_u^2 - A^2 \cdot E - 2 \cdot A \cdot B \cdot N_u^2\right)}}$
0, 0, 3, 0, 5, 0:	$\frac{C^2 \cdot N_u \cdot \sqrt{C^4 \cdot (E-1)^2}}{(C^2 - C^2 \cdot E) \cdot \sqrt{C^4 \cdot N_u^2}}$
1, 0, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{\left[N_u^2 \cdot (A-1)^2 - A^2 \cdot C^2 \cdot (E-1)\right]^2 \cdot \left(A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2\right)}}{\sqrt{\left[N_u^3 \cdot (A-1)^2 + A^2 \cdot C^2 \cdot N_u\right]^2 \cdot \left(N_u^2 + A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 - A^2 \cdot C^2 \cdot E\right)}}$
0, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{\left[C^2 \cdot (E-1) - N_u^2 \cdot (B-1)^2\right]^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + C^2 + N_u^2\right)}}{\sqrt{\left[N_u^3 \cdot (B-1)^2 + C^2 \cdot N_u\right]^2 \cdot \left(C^2 + N_u^2 + B^2 \cdot N_u^2 - C^2 \cdot E - 2 \cdot B \cdot N_u^2\right)}}$
1, 2, 3, 0, 5, 0:	$\frac{N_u \cdot \sqrt{\left[N_u^2 \cdot (A-B)^2 - A^2 \cdot C^2 \cdot (E-1)\right]^2 \cdot \left(A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right)}}{\sqrt{\left[N_u^3 \cdot (A-B)^2 + A^2 \cdot C^2 \cdot N_u\right]^2 \cdot \left(A^2 \cdot C^2 + A^2 \cdot N_u^2 + B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 - A^2 \cdot C^2 \cdot E\right)}}$



$$\mathbf{0}, \mathbf{0}, \mathbf{0}, \mathbf{4}, \mathbf{5}, \mathbf{0}: \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{(\mathbf{D} - \mathbf{E})^2}}{\sqrt{\mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{D} - \mathbf{E})}}$$

$$\mathbf{1}, \mathbf{0}, \mathbf{0}, \mathbf{4}, \mathbf{5}, \mathbf{0}: \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{A}^2 \cdot (\mathbf{D} - \mathbf{E}) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - 1)^2\right]^2} \cdot (\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - 1)^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}\right]^2} \cdot (\mathbf{A}^2 \cdot \mathbf{D} - \mathbf{A}^2 \cdot \mathbf{E} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2)}$$

$$\mathbf{0}, \mathbf{2}, \mathbf{0}, \mathbf{4}, \mathbf{5}, \mathbf{0}: \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{D} - \mathbf{E} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - 1)^2\right]^2} \cdot \left(\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^2 + 1\right)}{\sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{B} - 1)^2\right]^2} \cdot \left(\mathbf{D} \cdot \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{D} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{D} - \mathbf{E}\right)}$$

$$\mathbf{1, 2, 0, 4, 5, 0:} \quad \frac{\mathbf{D \cdot N_u \cdot \sqrt{\left[A^2 \cdot (D - E) + D \cdot N_u^2 \cdot (A - B)^2\right]^2} \cdot \left(A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2\right)}}{\sqrt{\left[A^2 \cdot D \cdot N_u + D \cdot N_u^3 \cdot (A - B)^2\right]^2} \cdot \left(A^2 \cdot D - A^2 \cdot E + A^2 \cdot D \cdot N_u^2 + B^2 \cdot D \cdot N_u^2 - 2 \cdot A \cdot B \cdot D \cdot N_u^2\right)}$$

$$\mathbf{0}, \mathbf{0}, \mathbf{3}, \mathbf{4}, \mathbf{5}, \mathbf{0}: \frac{\mathbf{C}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^4 \cdot (\mathbf{D} - \mathbf{E})^2}}{(\mathbf{C}^2 \cdot \mathbf{D} - \mathbf{C}^2 \cdot \mathbf{E}) \cdot \sqrt{\mathbf{C}^4 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$$

$$\mathbf{1, 0, 3, 4, 5, 0:} \quad \frac{\mathbf{D} \cdot \mathbf{N_u} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - 1)^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E})\right]^2} \cdot \left(\mathbf{A}^2 \cdot \mathbf{C}^2 + \mathbf{A}^2 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{N_u}^2 + \mathbf{N_u}^2\right)}{\sqrt{\left[\mathbf{D} \cdot \mathbf{N_u}^3 \cdot (\mathbf{A} - 1)^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} \cdot \mathbf{N_u}\right]^2} \cdot \left(\mathbf{D} \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N_u}^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} - \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{E} + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N_u}^2\right)}$$

$$\mathbf{0}, \mathbf{2}, \mathbf{3}, \mathbf{4}, \mathbf{5}, \mathbf{0}: \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E}) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - 1)^2 \right]^2} \cdot \left(\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2 \right)}{\sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{B} - 1)^2 + \mathbf{C}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right]^2} \cdot \left(\mathbf{C}^2 \cdot \mathbf{D} - \mathbf{C}^2 \cdot \mathbf{E} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right)}$$

$$\frac{1, 2, 3, 4, 5, 0: \quad \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{D} - \mathbf{E}) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})^2 \right]^2} \cdot (\mathbf{A}^2 \cdot \mathbf{C}^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right]^2} \cdot (\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} - \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{E} + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2)}$$



0, 0, 0, 0, 0, 6: 0

1, 0, 0, 0, 0, 6:
$$\frac{N_u \cdot \sqrt{F^2 \cdot N_u^4 \cdot (A-1)^4} \cdot (A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot N_u^2 + N_u^2)}{F \cdot \sqrt{[N_u^3 \cdot (A-1)^2 + A^2 \cdot N_u]^2} \cdot (A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2)}$$

0, 2, 0, 0, 0, 6:
$$\frac{N_u \cdot \sqrt{F^2 \cdot N_u^4 \cdot (B-1)^4} \cdot (B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2 + 1)}{F \cdot \sqrt{[N_u + N_u^3 \cdot (B-1)^2]^2} \cdot (B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2)}$$

1, 2, 0, 0, 0, 6:
$$\frac{N_u \cdot \sqrt{F^2 \cdot N_u^4 \cdot (A-B)^4} \cdot (A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2)}{F \cdot \sqrt{[N_u^3 \cdot (A-B)^2 + A^2 \cdot N_u]^2} \cdot (A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2)}$$

0, 0, 3, 0, 0, 6: 0

1, 0, 3, 0, 0, 6:
$$\frac{N_u \cdot \sqrt{F^2 \cdot N_u^4 \cdot (A-1)^4} \cdot (A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2)}{F \cdot \sqrt{[N_u^3 \cdot (A-1)^2 + A^2 \cdot C^2 \cdot N_u]^2} \cdot (A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2)}$$

0, 2, 3, 0, 0, 6:
$$\frac{N_u \cdot \sqrt{F^2 \cdot N_u^4 \cdot (B-1)^4} \cdot (B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + C^2 + N_u^2)}{F \cdot \sqrt{[N_u^3 \cdot (B-1)^2 + C^2 \cdot N_u]^2} \cdot (B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2)}$$

1, 2, 3, 0, 0, 6:
$$\frac{N_u \cdot \sqrt{F^2 \cdot N_u^4 \cdot (A-B)^4} \cdot (A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2)}{F \cdot \sqrt{[N_u^3 \cdot (A-B)^2 + A^2 \cdot C^2 \cdot N_u]^2} \cdot (A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2)}$$



$$\mathbf{0}, \mathbf{0}, \mathbf{0}, \mathbf{4}, \mathbf{0}, \mathbf{6}: \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{F}^2 \cdot (\mathbf{D} - 1)^2}}{\mathbf{F} \cdot (\mathbf{D} - 1) \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$$

$$\frac{1, 0, 0, 4, 0, 6: \quad \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{A}^2 \cdot \mathbf{F} \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{F} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - 1)^2 \right]^2} \cdot \left(\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^2 \right)}{\mathbf{F} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - 1)^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right]^2} \cdot \left(\mathbf{A}^2 \cdot \mathbf{D} - \mathbf{A}^2 + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right)}$$

$$\mathbf{0}, \mathbf{2}, \mathbf{0}, \mathbf{4}, \mathbf{0}, \mathbf{6}: \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{F} \cdot (\mathbf{D} - \mathbf{1}) + \mathbf{D} \cdot \mathbf{F} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - \mathbf{1})^2\right]^2} \cdot \left(\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^2 + \mathbf{1}\right)}{\mathbf{F} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{B} - \mathbf{1})^2\right]^2} \cdot \left(\mathbf{D} \cdot \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{D} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{D} - \mathbf{1}\right)}$$

$$\frac{1, 2, 0, 4, 0, 6: \quad \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{A}^2 \cdot \mathbf{F} \cdot (\mathbf{D} - 1) + \mathbf{D} \cdot \mathbf{F} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})^2 \right]^2} \cdot \left(\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \right)}{\mathbf{F} \cdot \sqrt{\left[\mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - \mathbf{B})^2 \right]^2} \cdot \left(\mathbf{A}^2 \cdot \mathbf{D} - \mathbf{A}^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right)}$$

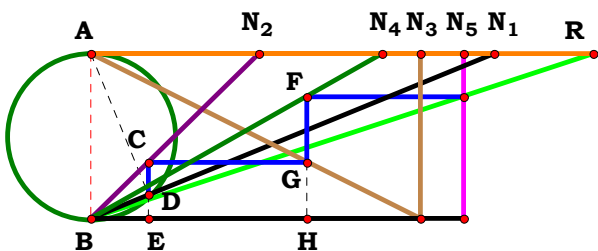
$$\mathbf{0}, \mathbf{0}, \mathbf{3}, \mathbf{4}, \mathbf{0}, \mathbf{6}: \frac{\mathbf{C}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{C}^4 \cdot \mathbf{F}^2 \cdot (\mathbf{D} - 1)^2}}{\mathbf{F} \cdot (\mathbf{C}^2 - \mathbf{C}^2 \cdot \mathbf{D}) \cdot \sqrt{\mathbf{C}^4 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}}$$

$$\mathbf{1, 0, 3, 4, 0, 6:} \quad \frac{\mathbf{D \cdot N_u \cdot \sqrt{\left[A^2 \cdot C^2 \cdot F \cdot (D - 1) + D \cdot F \cdot N_u^2 \cdot (A - 1)^2\right]^2} \cdot \left(A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2\right)}}{\mathbf{F \cdot \sqrt{\left[D \cdot N_u^3 \cdot (A - 1)^2 + A^2 \cdot C^2 \cdot D \cdot N_u\right]^2} \cdot \left(D \cdot N_u^2 - A^2 \cdot C^2 - 2 \cdot A \cdot D \cdot N_u^2 + A^2 \cdot C^2 \cdot D + A^2 \cdot D \cdot N_u^2\right)}}$$

$$\mathbf{0}, \mathbf{2}, \mathbf{3}, \mathbf{4}, \mathbf{0}, \mathbf{6}: \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{C}^2 \cdot \mathbf{F} \cdot (\mathbf{D} - \mathbf{1}) + \mathbf{D} \cdot \mathbf{F} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - \mathbf{1})^2 \right]^2} \cdot \left(\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2 \right)}{\mathbf{F} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{B} - \mathbf{1})^2 + \mathbf{C}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right]^2} \cdot \left(\mathbf{C}^2 \cdot \mathbf{D} - \mathbf{C}^2 + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 \right)}$$

$$\frac{1, 2, 3, 4, 0, 6: \quad \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{F} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{F} \cdot (\mathbf{D} - 1) \right]^2} \cdot (\mathbf{A}^2 \cdot \mathbf{C}^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{F} \cdot \sqrt{\left[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right]^2} \cdot (\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot \mathbf{D} - \mathbf{A}^2 \cdot \mathbf{C}^2 + \mathbf{A}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B}^2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}^2)}$$

0, 0, 0, 0, 5, 6:	$\frac{N_u \cdot \sqrt{F^2 \cdot (E - 1)^2}}{F \cdot (E - 1) \cdot \sqrt{N_u^2}}$
1, 0, 0, 0, 5, 6:	$\frac{N_u \cdot \sqrt{\left[F \cdot N_u^2 \cdot (A - 1)^2 - A^2 \cdot F \cdot (E - 1) \right]^2 \cdot \left(A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot N_u^2 + N_u^2 \right)}}{F \cdot \sqrt{\left[N_u^3 \cdot (A - 1)^2 + A^2 \cdot N_u \right]^2 \cdot \left(A^2 + N_u^2 + A^2 \cdot N_u^2 - A^2 \cdot E - 2 \cdot A \cdot N_u^2 \right)}}$
0, 2, 0, 0, 5, 6:	$\frac{N_u \cdot \sqrt{\left[F \cdot (E - 1) - F \cdot N_u^2 \cdot (B - 1)^2 \right]^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2 + 1 \right)}}{F \cdot \sqrt{\left[N_u + N_u^3 \cdot (B - 1)^2 \right]^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + N_u^2 - E + 1 \right)}}$
1, 2, 0, 0, 5, 6:	$\frac{N_u \cdot \sqrt{\left[A^2 \cdot F \cdot (E - 1) - F \cdot N_u^2 \cdot (A - B)^2 \right]^2 \cdot \left(A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2 \right)}}{F \cdot \sqrt{\left[N_u^3 \cdot (A - B)^2 + A^2 \cdot N_u \right]^2 \cdot \left(A^2 + A^2 \cdot N_u^2 + B^2 \cdot N_u^2 - A^2 \cdot E - 2 \cdot A \cdot B \cdot N_u^2 \right)}}$
0, 0, 3, 0, 5, 6:	$\frac{C^2 \cdot N_u \cdot \sqrt{C^4 \cdot F^2 \cdot (E - 1)^2}}{F \cdot (C^2 - C^2 \cdot E) \cdot \sqrt{C^4 \cdot N_u^2}}$
1, 0, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{\left[F \cdot N_u^2 \cdot (A - 1)^2 - A^2 \cdot C^2 \cdot F \cdot (E - 1) \right]^2 \cdot \left(A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 + N_u^2 \right)}}{F \cdot \sqrt{\left[N_u^3 \cdot (A - 1)^2 + A^2 \cdot C^2 \cdot N_u \right]^2 \cdot \left(N_u^2 + A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^2 - A^2 \cdot C^2 \cdot E \right)}}$
0, 2, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{\left[F \cdot N_u^2 \cdot (B - 1)^2 - C^2 \cdot F \cdot (E - 1) \right]^2 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^2 + C^2 + N_u^2 \right)}}{F \cdot \sqrt{\left[N_u^3 \cdot (B - 1)^2 + C^2 \cdot N_u \right]^2 \cdot \left(C^2 + N_u^2 + B^2 \cdot N_u^2 - C^2 \cdot E - 2 \cdot B \cdot N_u^2 \right)}}$
1, 2, 3, 0, 5, 6:	$\frac{N_u \cdot \sqrt{\left[F \cdot N_u^2 \cdot (A - B)^2 - A^2 \cdot C^2 \cdot F \cdot (E - 1) \right]^2 \cdot \left(A^2 \cdot C^2 + A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 + B^2 \cdot N_u^2 \right)}}{F \cdot \sqrt{\left[N_u^3 \cdot (A - B)^2 + A^2 \cdot C^2 \cdot N_u \right]^2 \cdot \left(A^2 \cdot C^2 + A^2 \cdot N_u^2 + B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u^2 - A^2 \cdot C^2 \cdot E \right)}}$



N₁ = 2.43822
N₂ = 1.01441
N₃ = 1.99741
N₄ = 1.76258
N₅ = 2.25271
R = 3.03998

Unit. AB := 1 Given. $N_1 := 2.43822$ $N_2 := 1.01441$ $N_3 := 1.99741$
$$\mathbf{N}_4 := 1.76258 \quad \mathbf{N}_5 := 2.25271$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$

Descriptions.

$$\frac{\mathbf{C} \cdot \mathbf{N}_u \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2)} = 3.03998$$

$$\mathbf{Num} := \frac{\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2)}{\sqrt{[\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_u^2)]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

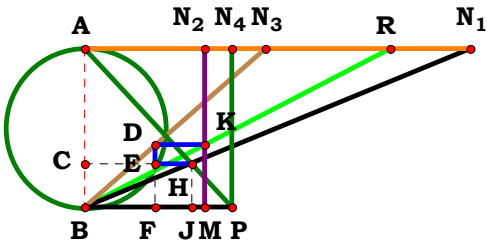
$$\mathbf{L} - \frac{\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2)^2}}{\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}} = 0$$



For 5 variables there are 32 subsets.

0, 0, 0, 0, 0:	$\frac{\sqrt{N_u^4 \cdot (N_u^2 + 1)}}{N_u \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$
1, 0, 0, 0, 0:	$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 - A + N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - A + N_u^2)}}$
0, 2, 0, 0, 0:	$\frac{N_u \cdot (N_u^2 + 1) \cdot \sqrt{(N_u^2 - B + 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - B + 1)}}$
1, 2, 0, 0, 0:	$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 - B \cdot A + N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - B \cdot A + N_u^2)}}$
0, 0, 3, 0, 0:	$\frac{C \cdot \sqrt{N_u^4 \cdot (N_u^2 + 1)}}{N_u \cdot \sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2}}$
1, 0, 3, 0, 0:	$\frac{C \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 - A + N_u^2)^2}}{(A^2 - A + N_u^2) \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$
0, 2, 3, 0, 0:	$\frac{C \cdot N_u \cdot (N_u^2 + 1) \cdot \sqrt{(N_u^2 - B + 1)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - B + 1)}}$
1, 2, 3, 0, 0:	$\frac{C \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 - B \cdot A + N_u^2)^2}}{(A^2 - B \cdot A + N_u^2) \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$

0, 0, 0, 4, 0:	$\frac{\sqrt{D^2 \cdot N_u^4 \cdot (N_u^2 + 1)}}{D \cdot N_u \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2}}$
1, 0, 0, 4, 0:	$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{D^2 \cdot (A^2 - A + N_u^2)^2}}{D \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - A + N_u^2)}}$
0, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot (N_u^2 - B + 1)^2 \cdot (N_u^2 + 1)}}{D \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - B + 1)}}$
1, 2, 0, 4, 0:	$\frac{N_u \cdot \sqrt{D^2 \cdot (A^2 - B \cdot A + N_u^2)^2 \cdot (A^2 + N_u^2)}}{D \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - B \cdot A + N_u^2)}}$
0, 0, 3, 4, 0:	$\frac{C \cdot \sqrt{D^2 \cdot N_u^4 \cdot (N_u^2 + 1)}}{D \cdot N_u \cdot \sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2}}$
1, 0, 3, 4, 0:	$\frac{C \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{D^2 \cdot (A^2 - A + N_u^2)^2}}{D \cdot (A^2 - A + N_u^2) \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$
0, 2, 3, 4, 0:	$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (N_u^2 - B + 1)^2 \cdot (N_u^2 + 1)}}{D \cdot \sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - B + 1)}}$
1, 2, 3, 4, 0:	$\frac{C \cdot N_u \cdot \sqrt{D^2 \cdot (A^2 - B \cdot A + N_u^2)^2 \cdot (A^2 + N_u^2)}}{D \cdot (A^2 - B \cdot A + N_u^2) \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}}$



N₁ = 2.43434
N₂ = 0.75758
N₃ = 1.14141
N₄ = 0.92929
R = 1.93380

Unit. AB := 1 Given. N₁ := 2.43434 N₂ := .75758 N₃ := 1.14141

N₄ := .92929

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot (A + D)}{A \cdot B \cdot C \cdot D} = 1.933803$$

$$\text{Num} := \frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot (A + D)}{\sqrt{\left[N_u^2 \cdot \sqrt{A \cdot D} \cdot (A + D)\right]^2}}$$

$$\text{Den} := \frac{A \cdot B \cdot C \cdot D}{\sqrt{(A \cdot B \cdot C \cdot D)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

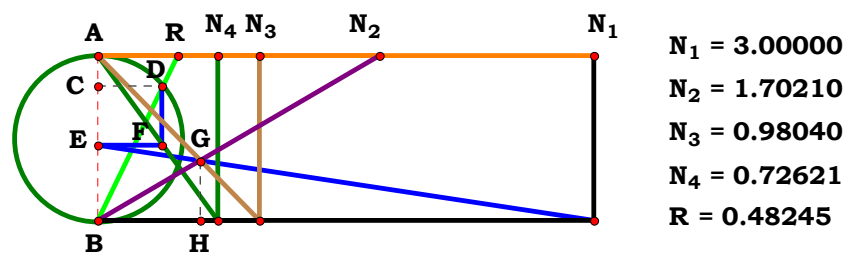
$$L - \frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot (A + D) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2 \cdot D^2}}{A \cdot B \cdot C \cdot D \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot (A + D)^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{N_u^2}{\sqrt{N_u^4}}$
1, 0, 0, 0:	$\frac{N_u^2 \cdot (A + 1) \cdot \sqrt{A^2}}{\sqrt{A} \cdot \sqrt{A \cdot N_u^4 \cdot (A + 1)^2}}$
0, 2, 0, 0:	$\frac{N_u^2 \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^4}}$
1, 2, 0, 0:	$\frac{N_u^2 \cdot (A + 1) \cdot \sqrt{A^2 \cdot B^2}}{\sqrt{A} \cdot B \cdot \sqrt{A \cdot N_u^4 \cdot (A + 1)^2}}$
0, 0, 3, 0:	$\frac{N_u^2 \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^4}}$
1, 0, 3, 0:	$\frac{N_u^2 \cdot (A + 1) \cdot \sqrt{A^2 \cdot C^2}}{\sqrt{A} \cdot C \cdot \sqrt{A \cdot N_u^4 \cdot (A + 1)^2}}$
0, 2, 3, 0:	$\frac{N_u^2 \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{N_u^4}}$
1, 2, 3, 0:	$\frac{N_u^2 \cdot (A + 1) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{\sqrt{A} \cdot B \cdot C \cdot \sqrt{A \cdot N_u^4 \cdot (A + 1)^2}}$

0, 0, 0, 4:	$\frac{N_u^2 \cdot (D + 1) \cdot \sqrt{D^2}}{\sqrt{D} \cdot \sqrt{D \cdot N_u^4 \cdot (D + 1)^2}}$
1, 0, 0, 4:	$\frac{N_u^2 \cdot \sqrt{A^2 \cdot D^2} \cdot \sqrt{A \cdot D} \cdot (A + D)}{A \cdot D \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot (A + D)^2}}$
0, 2, 0, 4:	$\frac{N_u^2 \cdot (D + 1) \cdot \sqrt{B^2 \cdot D^2}}{B \cdot \sqrt{D} \cdot \sqrt{D \cdot N_u^4 \cdot (D + 1)^2}}$
1, 2, 0, 4:	$\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot (A + D) \cdot \sqrt{A^2 \cdot B^2 \cdot D^2}}{A \cdot B \cdot D \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot (A + D)^2}}$
0, 0, 3, 4:	$\frac{N_u^2 \cdot (D + 1) \cdot \sqrt{C^2 \cdot D^2}}{C \cdot \sqrt{D} \cdot \sqrt{D \cdot N_u^4 \cdot (D + 1)^2}}$
1, 0, 3, 4:	$\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot (A + D) \cdot \sqrt{A^2 \cdot C^2 \cdot D^2}}{A \cdot C \cdot D \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot (A + D)^2}}$
0, 2, 3, 4:	$\frac{N_u^2 \cdot (D + 1) \cdot \sqrt{B^2 \cdot C^2 \cdot D^2}}{B \cdot C \cdot \sqrt{D} \cdot \sqrt{D \cdot N_u^4 \cdot (D + 1)^2}}$
1, 2, 3, 4:	$\frac{N_u^2 \cdot \sqrt{A \cdot D} \cdot (A + D) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2 \cdot D^2}}{A \cdot B \cdot C \cdot D \cdot \sqrt{A \cdot D \cdot N_u^4 \cdot (A + D)^2}}$



Unit. AB := 1 **Given.** N₁ := 3 N₂ := 1.70210 N₃ := .98040
N₄ := .72621

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{2 \cdot N_u \cdot (A - C)}{D \cdot (A - B - C) - \sqrt{D^2 \cdot (A - B - C)^2 - 4 \cdot N_u^2 \cdot (A - C)^2}} = 0.482453 \quad \text{Num} := \frac{2 \cdot N_u \cdot (A - C)}{\sqrt{[2 \cdot N_u \cdot (A - C)]^2}}$$

$$\frac{2 \cdot N_u \cdot (A - C)}{D \cdot (A - B - C) - \sqrt{D^2 \cdot (A - B - C)^2 - 4 \cdot N_u^2 \cdot (A - C)^2}} = 0.482453$$

$$\text{Num} := \frac{2 \cdot N_u \cdot (A - C)}{\sqrt{[2 \cdot N_u \cdot (A - C)]^2}}$$

$$\text{Den} := \frac{D \cdot (A - B - C) - \sqrt{D^2 \cdot (A - B - C)^2 - 4 \cdot N_u^2 \cdot (A - C)^2}}{\sqrt{[D \cdot (A - B - C) - \sqrt{D^2 \cdot (A - B - C)^2 - 4 \cdot N_u^2 \cdot (A - C)^2}]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = -1 Den = -1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\sqrt{\mathbf{D}^2 \cdot (\mathbf{B} - \mathbf{A} + \mathbf{C})^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{C})^2} + \mathbf{D} \cdot (\mathbf{B} - \mathbf{A} + \mathbf{C}) \right]^2 \cdot (\mathbf{A} - \mathbf{C})}}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{C})^2} \cdot \left[\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{D} - \mathbf{C} \cdot \mathbf{D} - \sqrt{\mathbf{D}^2 \cdot (\mathbf{B} - \mathbf{A} + \mathbf{C})^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{C})^2} \right]} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

1, 0, 0, 0:
$$\frac{N_u \cdot (A - 1) \cdot \sqrt{\left[\sqrt{(A - 2)^2 - 4 \cdot N_u^2 \cdot (A - 1)^2} - A + 2\right]^2}}{\sqrt{N_u^2 \cdot (A - 1)^2} \cdot \left[\sqrt{(A - 2)^2 - 4 \cdot N_u^2 \cdot (A - 1)^2} - A + 2\right]}$$

0, 2, 0, 0: 0

1, 2, 0, 0:
$$\frac{N_u \cdot (A - 1) \cdot \sqrt{\left[B - A + \sqrt{(B - A + 1)^2 - 4 \cdot N_u^2 \cdot (A - 1)^2} + 1\right]^2}}{\sqrt{N_u^2 \cdot (A - 1)^2} \cdot \left[B - A + \sqrt{(B - A + 1)^2 - 4 \cdot N_u^2 \cdot (A - 1)^2} + 1\right]}$$

0, 0, 3, 0:
$$\frac{N_u \cdot (C - 1) \cdot \sqrt{\left[C + \sqrt{C^2 - 4 \cdot N_u^2 \cdot (C - 1)^2}\right]^2}}{\left[C + \sqrt{C^2 - 4 \cdot N_u^2 \cdot (C - 1)^2}\right] \cdot \sqrt{N_u^2 \cdot (C - 1)^2}}$$

1, 0, 3, 0:
$$\frac{N_u \cdot \sqrt{\left[C - A + \sqrt{(C - A + 1)^2 - 4 \cdot N_u^2 \cdot (A - C)^2} + 1\right]^2} \cdot (A - C)}{\sqrt{N_u^2 \cdot (A - C)^2} \cdot \left[C - A + \sqrt{(C - A + 1)^2 - 4 \cdot N_u^2 \cdot (A - C)^2} + 1\right]}$$

0, 2, 3, 0:
$$\frac{N_u \cdot (C - 1) \cdot \sqrt{\left[B + C + \sqrt{(B + C - 1)^2 - 4 \cdot N_u^2 \cdot (C - 1)^2} - 1\right]^2}}{\sqrt{N_u^2 \cdot (C - 1)^2} \cdot \left[B + C + \sqrt{(B + C - 1)^2 - 4 \cdot N_u^2 \cdot (C - 1)^2} - 1\right]}$$

1, 2, 3, 0:
$$\frac{N_u \cdot \sqrt{\left[B - A + C + \sqrt{(B - A + C)^2 - 4 \cdot N_u^2 \cdot (A - C)^2}\right]^2} \cdot (A - C)}{\sqrt{N_u^2 \cdot (A - C)^2} \cdot \left[B - A + C + \sqrt{(B - A + C)^2 - 4 \cdot N_u^2 \cdot (A - C)^2}\right]}$$

0, 0, 0, 4: 0

1, 0, 0, 4:
$$\frac{N_u \cdot (A - 1) \cdot \sqrt{\left[\sqrt{D^2 \cdot (A - 2)^2 - 4 \cdot N_u^2 \cdot (A - 1)^2} - D \cdot (A - 2)\right]^2}}{\sqrt{N_u^2 \cdot (A - 1)^2} \cdot \left[2 \cdot D + \sqrt{D^2 \cdot (A - 2)^2 - 4 \cdot N_u^2 \cdot (A - 1)^2} - A \cdot D\right]}$$

0, 2, 0, 4: 0

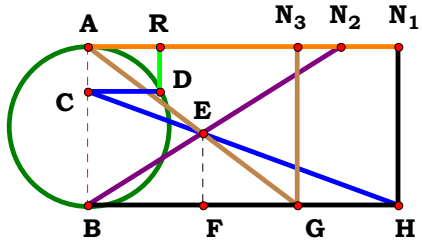
1, 2, 0, 4:
$$\frac{N_u \cdot (A - 1) \cdot \sqrt{\left[D \cdot (B - A + 1) + \sqrt{D^2 \cdot (B - A + 1)^2 - 4 \cdot N_u^2 \cdot (A - 1)^2}\right]^2}}{\sqrt{N_u^2 \cdot (A - 1)^2} \cdot \left[D - A \cdot D + B \cdot D + \sqrt{D^2 \cdot (B - A + 1)^2 - 4 \cdot N_u^2 \cdot (A - 1)^2}\right]}$$

0, 0, 3, 4:
$$\frac{N_u \cdot (C - 1) \cdot \sqrt{\left[C \cdot D + \sqrt{C^2 \cdot D^2 - 4 \cdot N_u^2 \cdot (C - 1)^2}\right]^2}}{\left[C \cdot D + \sqrt{C^2 \cdot D^2 - 4 \cdot N_u^2 \cdot (C - 1)^2}\right] \cdot \sqrt{N_u^2 \cdot (C - 1)^2}}$$

1, 0, 3, 4:
$$\frac{N_u \cdot \sqrt{\left[\sqrt{D^2 \cdot (C - A + 1)^2 - 4 \cdot N_u^2 \cdot (A - C)^2} + D \cdot (C - A + 1)\right]^2} \cdot (A - C)}{\sqrt{N_u^2 \cdot (A - C)^2} \cdot \left[D - A \cdot D + C \cdot D + \sqrt{D^2 \cdot (C - A + 1)^2 - 4 \cdot N_u^2 \cdot (A - C)^2}\right]}$$

0, 2, 3, 4:
$$\frac{N_u \cdot \sqrt{\left[D \cdot (B + C - 1) + \sqrt{D^2 \cdot (B + C - 1)^2 - 4 \cdot N_u^2 \cdot (C - 1)^2}\right]^2} \cdot (C - 1)}{\sqrt{N_u^2 \cdot (C - 1)^2} \cdot \left[\sqrt{D^2 \cdot (B + C - 1)^2 - 4 \cdot N_u^2 \cdot (C - 1)^2} - D + B \cdot D + C \cdot D\right]}$$

1, 2, 3, 4:
$$\frac{N_u \cdot \sqrt{\left[\sqrt{D^2 \cdot (B - A + C)^2 - 4 \cdot N_u^2 \cdot (A - C)^2} + D \cdot (B - A + C)\right]^2} \cdot (A - C)}{\sqrt{N_u^2 \cdot (A - C)^2} \cdot \left[A \cdot D - B \cdot D - C \cdot D - \sqrt{D^2 \cdot (B - A + C)^2 - 4 \cdot N_u^2 \cdot (A - C)^2}\right]}$$



N₁ = 1.95960
N₂ = 1.59596
N₃ = 1.32323
R = 0.44970

Unit. $AB := 1$ **Given.** $N_1 := 1.95960$ $N_2 := 1.59596$ $N_3 := 1.32323$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{C} - \mathbf{A}}}{\mathbf{B} - \mathbf{A} + \mathbf{C}} = \mathbf{0.449703} \quad \text{Num} := \frac{\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{C} - \mathbf{A}}}{\sqrt{(\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{C} - \mathbf{A}})^2}} \quad \text{Den} := \frac{\mathbf{B} - \mathbf{A} + \mathbf{C}}{\sqrt{(\mathbf{B} - \mathbf{A} + \mathbf{C})^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}} \cdot \sqrt{(\mathbf{B} - \mathbf{A} + \mathbf{C})^2} \cdot \sqrt{\mathbf{C} - \mathbf{A}}}{\sqrt{-\mathbf{B} \cdot (\mathbf{A} - \mathbf{C})} \cdot (\mathbf{B} - \mathbf{A} + \mathbf{C})} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0: 0

1, 0, 0:
$$-\frac{\sqrt{(A-2)^2}}{A-2}$$

0, 2, 0: 0

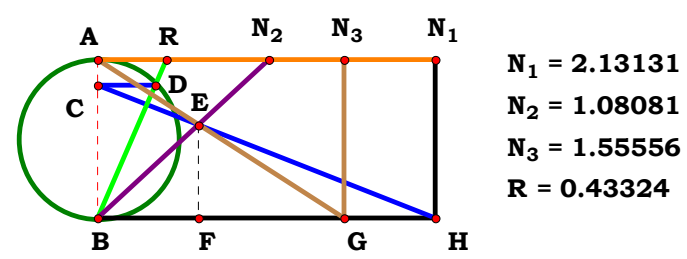
1, 2, 0:
$$\frac{\sqrt{B}\cdot\sqrt{1-A}\cdot\sqrt{(B-A+1)^2}}{\sqrt{-B\cdot(A-1)\cdot(B-A+1)}}$$

0, 0, 3:
$$\frac{\sqrt{C^2}}{C}$$

1, 0, 3:
$$\frac{\sqrt{(C-A+1)^2}}{C-A+1}$$

0, 2, 3:
$$\frac{\sqrt{B}\cdot\sqrt{C-1}\cdot\sqrt{(B+C-1)^2}}{\sqrt{B\cdot(C-1)\cdot(B+C-1)}}$$

1, 2, 3:
$$\frac{\sqrt{B}\cdot\sqrt{(B-A+C)^2}\cdot\sqrt{C-A}}{\sqrt{-B\cdot(A-C)\cdot(B-A+C)}}$$



Unit. $AB := 1$ Given. $N_1 := 2.13131$ $N_2 := 1.08081$ $N_3 := 1.55556$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

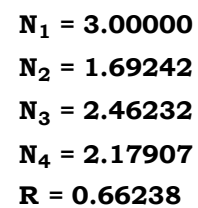
$\frac{\sqrt{C-A}}{\sqrt{B}} = 0.433236$ $Num := \frac{\sqrt{C-A}}{\sqrt{(\sqrt{C-A})^2}}$ $Den := \frac{\sqrt{B}}{\sqrt{(\sqrt{B})^2}}$ $L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$1 = 1$

$L - 1 = 0$



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{Num} := \frac{\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u}{\sqrt{(\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u)^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

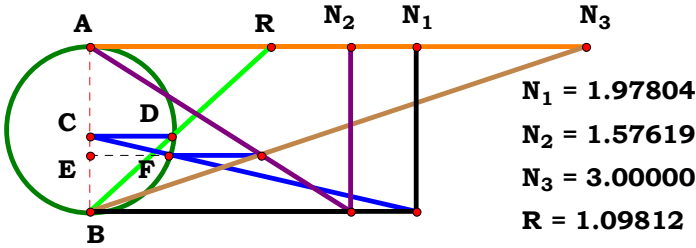
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[(\mathbf{A} - \mathbf{D}) \cdot \mathbf{B}^2 + \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^2 \right]^2}}{\left(\mathbf{A} \cdot \mathbf{B}^2 - \mathbf{B}^2 \cdot \mathbf{D} + \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^2 \right) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	$\frac{\sqrt{N_u^4}}{N_u \cdot \sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{(N_u^2 - D + 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 - D + 1)}}$
1, 0, 0, 0:	$\frac{N_u \cdot \sqrt{(N_u^2 + A - 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + A - 1)}}$	1, 0, 0, 4:	$\frac{N_u \cdot \sqrt{(N_u^2 + A - D)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + A - D)}}$
0, 2, 0, 0:	$\frac{B \cdot \sqrt{N_u^4}}{N_u \cdot \sqrt{B^2 \cdot N_u^2}}$	0, 2, 0, 4:	$\frac{B \cdot N_u \cdot \sqrt{[N_u^2 - B^2 \cdot (D - 1)]^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (B^2 + N_u^2 - B^2 \cdot D)}}$
1, 2, 0, 0:	$\frac{B \cdot N_u \cdot \sqrt{[(A - 1) \cdot B^2 + N_u^2]^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 - B^2 + A \cdot B^2)}}$	1, 2, 0, 4:	$\frac{B \cdot N_u \cdot \sqrt{[(A - D) \cdot B^2 + N_u^2]^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (N_u^2 + A \cdot B^2 - B^2 \cdot D)}}$
0, 0, 3, 0:	$\frac{\sqrt{N_u^4}}{N_u \cdot \sqrt{N_u^2}}$	0, 0, 3, 4:	$\frac{C \cdot N_u \cdot \sqrt{(C \cdot N_u^2 - D + 1)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (C \cdot N_u^2 - D + 1)}}$
1, 0, 3, 0:	$\frac{C \cdot N_u \cdot \sqrt{(C \cdot N_u^2 + A - 1)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (C \cdot N_u^2 + A - 1)}}$	1, 0, 3, 4:	$\frac{C \cdot N_u \cdot \sqrt{(C \cdot N_u^2 + A - D)^2}}{\sqrt{C^2 \cdot N_u^2 \cdot (C \cdot N_u^2 + A - D)}}$
0, 2, 3, 0:	$\frac{B \cdot \sqrt{C^2 \cdot N_u^4}}{N_u \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$	0, 2, 3, 4:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{[B^2 \cdot (D - 1) - C \cdot N_u^2]^2}}{\sqrt{B^2 \cdot C^2 \cdot N_u^2 \cdot (B^2 - B^2 \cdot D + C \cdot N_u^2)}}$
1, 2, 3, 0:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{[(A - 1) \cdot B^2 + C \cdot N_u^2]^2}}{\sqrt{B^2 \cdot C^2 \cdot N_u^2 \cdot (A \cdot B^2 - B^2 + C \cdot N_u^2)}}$	1, 2, 3, 4:	$\frac{B \cdot C \cdot N_u \cdot \sqrt{[(A - D) \cdot B^2 + C \cdot N_u^2]^2}}{(A \cdot B^2 - B^2 \cdot D + C \cdot N_u^2) \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}$



Unit. $AB := 1$ Given. $N_1 := 1.97804$ $N_2 := 1.57619$ $N_3 := 3$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$\frac{B \cdot \sqrt{N_u \cdot (N_u \cdot \sqrt{B \cdot C} - A \cdot C)}}{N_u \cdot (B \cdot C)^{\frac{3}{4}}} = 1.098117$$

$$Num := \frac{B \cdot \sqrt{N_u \cdot (N_u \cdot \sqrt{B \cdot C} - A \cdot C)}}{\sqrt{\left[B \cdot \sqrt{N_u \cdot (N_u \cdot \sqrt{B \cdot C} - A \cdot C)}\right]^2}}$$

$$Den := \frac{N_u \cdot (B \cdot C)^{\frac{3}{4}}}{\sqrt{\left[N_u \cdot (B \cdot C)^{\frac{3}{4}}\right]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

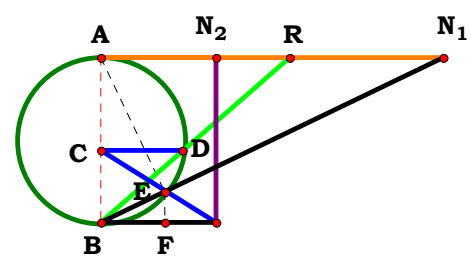
$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{B \cdot \sqrt{N_u^2 \cdot (B \cdot C)^{\frac{3}{2}}} \cdot \sqrt{-N_u \cdot (A \cdot C - N_u \cdot \sqrt{B \cdot C})}}{N_u \cdot (B \cdot C)^{\frac{3}{4}} \cdot \sqrt{-B^2 \cdot N_u \cdot (A \cdot C - N_u \cdot \sqrt{B \cdot C})}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{\sqrt{N_u^2}}{N_u}$	0, 0, 3:	$\frac{\sqrt{C^{\frac{3}{2}} \cdot N_u^2}}{C^{\frac{3}{4}} \cdot N_u}$
1, 0, 0:	$\frac{\sqrt{N_u^2}}{N_u}$	1, 0, 3:	$\frac{\sqrt{C^{\frac{3}{2}} \cdot N_u^2}}{C^{\frac{3}{4}} \cdot N_u}$
0, 2, 0:	$\frac{B^{\frac{1}{4}} \cdot \sqrt{N_u \cdot (\sqrt{B} \cdot N_u - 1)} \cdot \sqrt{B^{\frac{3}{2}} \cdot N_u^2}}{N_u \cdot \sqrt{B^2 \cdot N_u \cdot (\sqrt{B} \cdot N_u - 1)}}$	0, 2, 3:	$\frac{B \cdot \sqrt{-N_u \cdot (C - N_u \cdot \sqrt{B \cdot C})} \cdot \sqrt{N_u^2 \cdot (B \cdot C)^{\frac{3}{2}}}}{N_u \cdot (B \cdot C)^{\frac{3}{4}} \cdot \sqrt{-B^2 \cdot N_u \cdot (C - N_u \cdot \sqrt{B \cdot C})}}$
1, 2, 0:	$\frac{B^{\frac{1}{4}} \cdot \sqrt{-N_u \cdot (A - \sqrt{B} \cdot N_u)} \cdot \sqrt{B^{\frac{3}{2}} \cdot N_u^2}}{N_u \cdot \sqrt{-B^2 \cdot N_u \cdot (A - \sqrt{B} \cdot N_u)}}$	1, 2, 3:	$\frac{B \cdot \sqrt{N_u^2 \cdot (B \cdot C)^{\frac{3}{2}}} \cdot \sqrt{-N_u \cdot (A \cdot C - N_u \cdot \sqrt{B \cdot C})}}{N_u \cdot (B \cdot C)^{\frac{3}{4}} \cdot \sqrt{-B^2 \cdot N_u \cdot (A \cdot C - N_u \cdot \sqrt{B \cdot C})}}$



$N_1 = 2.07016$
 $N_2 = 0.69478$
 $R = 1.14280$

Unit. $AB := 1$ Given. $N_1 := 2.07016$ $N_2 := .69478$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

$\frac{\sqrt{N_u^2 - A \cdot B}}{A} = 1.142791$

$Num := \frac{\sqrt{N_u^2 - A \cdot B}}{\sqrt{\left(\sqrt{N_u^2 - A \cdot B}\right)^2}}$

$Den := \frac{A}{\sqrt{(A)^2}}$

$L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$\frac{\sqrt{A^2}}{A} = 1$

$L - \frac{\sqrt{A^2}}{A} = 0$



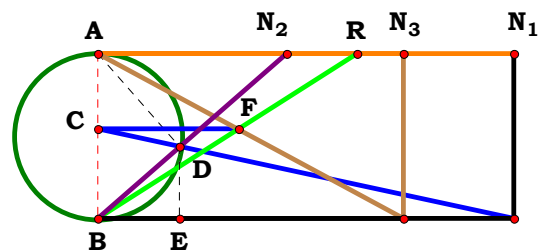
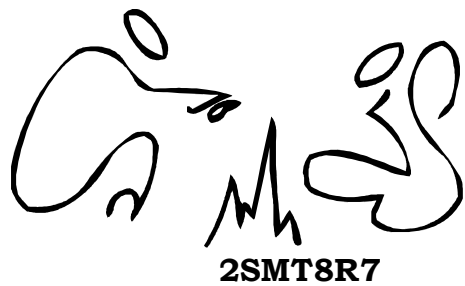
For 2 variables there are 4 subsets.

0, 0: 1

1, 0: $\frac{\sqrt{A^2}}{A}$

0, 2: 1

1, 2: $\frac{\sqrt{A^2}}{A}$



$N_1 = 2.51571$
 $N_2 = 1.14033$
 $N_3 = 1.85212$
 $R = 1.56887$

Unit. AB := 1 Given. $N_1 := 2.5157$ $N_2 := 1.14033$ $N_3 := 1.85212$
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{N_u^3 - A \cdot B \cdot N_u}{B^2 \cdot C} = 1.56887$$

$$\mathbf{Num} := \frac{\mathbf{N_u}^3 - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N_u}}{\sqrt{(\mathbf{N_u}^3 - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N_u})^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B}^2 \cdot \mathbf{C}}{\sqrt{(\mathbf{B}^2 \cdot \mathbf{C})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^4 \cdot \mathbf{C}^2 \cdot \mathbf{N}_u} \cdot (\mathbf{N}_u^2 - \mathbf{A} \cdot \mathbf{B})}{\mathbf{B}^2 \cdot \mathbf{C} \cdot \sqrt{(\mathbf{N}_u^3 - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_u)^2}} = 0$$



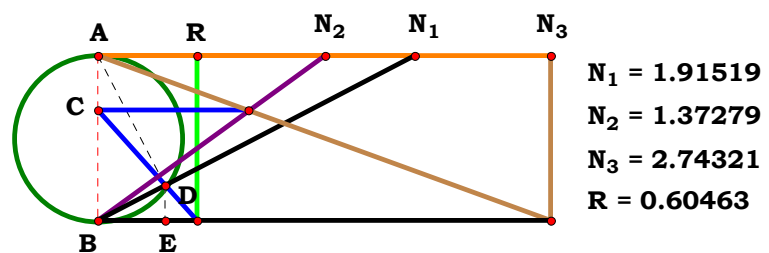
For 2 variables there are 4 subsets.

0, 0:
$$\frac{N_u \cdot (N_u^2 - 1)}{\sqrt{(N_u - N_u^3)^2}}$$

1, 0:
$$-\frac{N_u \cdot (A - N_u^2)}{\sqrt{(N_u^3 - A \cdot N_u)^2}}$$

0, 2:
$$-\frac{N_u \cdot \sqrt{B^4 \cdot C^2} \cdot (B - N_u^2)}{B^2 \cdot C \cdot \sqrt{(N_u^3 - B \cdot N_u)^2}}$$

1, 2:
$$\frac{\sqrt{B^4 \cdot C^2} \cdot N_u \cdot (N_u^2 - A \cdot B)}{B^2 \cdot C \cdot \sqrt{(N_u^3 - A \cdot B \cdot N_u)^2}}$$



Unit. AB := 1 Given. $N_1 := 1.91519$ $N_2 := 1.37279$ $N_3 := 2.74321$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_u}{\mathbf{B} \cdot \mathbf{N}_u^2 - \mathbf{A}^2 \cdot \mathbf{C}} = \mathbf{0.604634} \quad \text{Num} := \frac{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_u}{\sqrt{(\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_u)^2}} \quad \text{Den} := \frac{\mathbf{B} \cdot \mathbf{N}_u^2 - \mathbf{A}^2 \cdot \mathbf{C}}{\sqrt{(\mathbf{B} \cdot \mathbf{N}_u^2 - \mathbf{A}^2 \cdot \mathbf{C})^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot B \cdot N_u \cdot \sqrt{(A^2 \cdot C - B \cdot N_u^2)^2}}{(B \cdot N_u^2 - A^2 \cdot C) \cdot \sqrt{A^2 \cdot B^2 \cdot N_u^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:
$$\frac{N_u \cdot \sqrt{(N_u^2 - 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 - 1)}}$$

0, 0, 3:
$$-\frac{N_u \cdot \sqrt{(C - N_u^2)^2}}{\sqrt{N_u^2 \cdot (C - N_u^2)}}$$

1, 0, 0:
$$-\frac{A \cdot N_u \cdot \sqrt{(A^2 - N_u^2)^2}}{\sqrt{A^2 \cdot N_u^2 \cdot (A^2 - N_u^2)}}$$

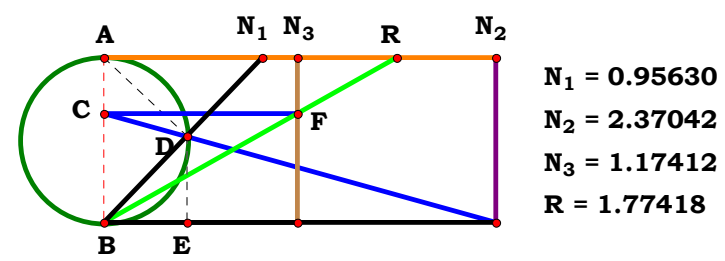
1, 0, 3:
$$\frac{A \cdot N_u \cdot \sqrt{(N_u^2 - A^2 \cdot C)^2}}{(N_u^2 - A^2 \cdot C) \cdot \sqrt{A^2 \cdot N_u^2}}$$

0, 2, 0:
$$\frac{B \cdot N_u \cdot \sqrt{(B \cdot N_u^2 - 1)^2}}{(B \cdot N_u^2 - 1) \cdot \sqrt{B^2 \cdot N_u^2}}$$

0, 2, 3:
$$-\frac{B \cdot N_u \cdot \sqrt{(C - B \cdot N_u^2)^2}}{\sqrt{B^2 \cdot N_u^2 \cdot (C - B \cdot N_u^2)}}$$

1, 2, 0:
$$-\frac{A \cdot B \cdot N_u \cdot \sqrt{(A^2 - B \cdot N_u^2)^2}}{(A^2 - B \cdot N_u^2) \cdot \sqrt{A^2 \cdot B^2 \cdot N_u^2}}$$

1, 2, 3:
$$\frac{A \cdot B \cdot N_u \cdot \sqrt{(A^2 \cdot C - B \cdot N_u^2)^2}}{(B \cdot N_u^2 - A^2 \cdot C) \cdot \sqrt{A^2 \cdot B^2 \cdot N_u^2}}$$



Unit. $AB := 1$ Given. $N_1 := .95630$ $N_2 := 2.37042$ $N_3 := 1.17412$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A^2 - B \cdot A + N_u^2)}{A^2 \cdot C} = 1.774188$$

$$Num := \frac{N_u \cdot (A^2 - B \cdot A + N_u^2)}{\sqrt{\left[N_u \cdot (A^2 - B \cdot A + N_u^2)\right]^2}}$$

$$Den := \frac{A^2 \cdot C}{\sqrt{(A^2 \cdot C)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{A^4 \cdot C^2 \cdot (A^2 - B \cdot A + N_u^2)}}{A^2 \cdot C \cdot \sqrt{N_u^2 \cdot (A^2 - B \cdot A + N_u^2)^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u^3}{\sqrt{N_u^6}}$$

1, 0, 0:

$$\frac{N_u \cdot \sqrt{A^4} \cdot (A^2 - A + N_u^2)}{A^2 \cdot \sqrt{N_u^2} \cdot (A^2 - A + N_u^2)^2}$$

0, 2, 0:

$$\frac{N_u \cdot (N_u^2 - B + 1)}{\sqrt{N_u^2} \cdot (N_u^2 - B + 1)^2}$$

1, 2, 0:

$$\frac{N_u \cdot \sqrt{A^4} \cdot (A^2 - B \cdot A + N_u^2)}{A^2 \cdot \sqrt{N_u^2} \cdot (A^2 - B \cdot A + N_u^2)^2}$$

0, 0, 3:

$$\frac{N_u^3 \cdot \sqrt{C^2}}{C \cdot \sqrt{N_u^6}}$$

1, 0, 3:

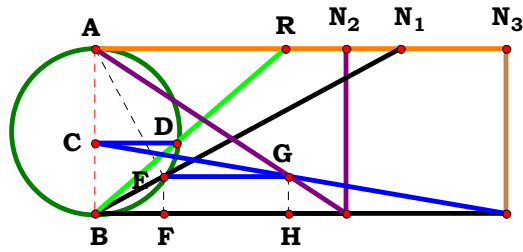
$$\frac{N_u \cdot \sqrt{A^4 \cdot C^2} \cdot (A^2 - A + N_u^2)}{A^2 \cdot C \cdot \sqrt{N_u^2} \cdot (A^2 - A + N_u^2)^2}$$

0, 2, 3:

$$\frac{N_u \cdot \sqrt{C^2} \cdot (N_u^2 - B + 1)}{C \cdot \sqrt{N_u^2} \cdot (N_u^2 - B + 1)^2}$$

1, 2, 3:

$$\frac{N_u \cdot \sqrt{A^4 \cdot C^2} \cdot (A^2 - B \cdot A + N_u^2)}{A^2 \cdot C \cdot \sqrt{N_u^2} \cdot (A^2 - B \cdot A + N_u^2)^2}$$



N₁ = 1.84739
N₂ = 1.51808
N₃ = 2.49138
R = 1.15469

Unit. AB := 1 **Given.** $N_1 := 1.84739$ $N_2 := 1.51808$ $N_3 := 2.49138$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot \sqrt{\mathbf{B} - \mathbf{C}}}{\mathbf{A} \cdot \sqrt{\mathbf{B}}} = 1.154681$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B} - \mathbf{C}}}{\sqrt{(\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B} - \mathbf{C}})^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A} \cdot \sqrt{\mathbf{B}}}{\sqrt{(\mathbf{A} \cdot \sqrt{\mathbf{B}})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

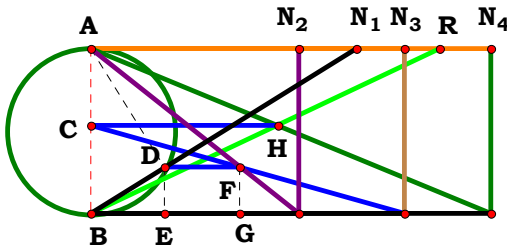
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B} - \mathbf{C}} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{B}}}{\mathbf{A} \cdot \sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{B} - \mathbf{C})}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0:	0	0, 0, 3:	$\frac{N_u \cdot \sqrt{1 - C}}{\sqrt{-N_u^2 \cdot (C - 1)}}$
1, 0, 0:	0	1, 0, 3:	$\frac{N_u \cdot \sqrt{1 - C} \cdot \sqrt{A^2}}{A \cdot \sqrt{-N_u^2 \cdot (C - 1)}}$
0, 2, 0:	$\frac{N_u \cdot \sqrt{B - 1}}{\sqrt{N_u^2 \cdot (B - 1)}}$	0, 2, 3:	$\frac{N_u \cdot \sqrt{B - C}}{\sqrt{N_u^2 \cdot (B - C)}}$
1, 2, 0:	$\frac{N_u \cdot \sqrt{B - 1} \cdot \sqrt{A^2 \cdot B}}{A \cdot \sqrt{B} \cdot \sqrt{N_u^2 \cdot (B - 1)}}$	1, 2, 3:	$\frac{N_u \cdot \sqrt{B - C} \cdot \sqrt{A^2 \cdot B}}{A \cdot \sqrt{B} \cdot \sqrt{N_u^2 \cdot (B - C)}}$



$N_1 = 1.60525$
 $N_2 = 1.25656$
 $N_3 = 1.90055$
 $N_4 = 2.42122$
 $R = 2.11406$

Unit. $AB := 1$ **Given.** $N_1 := 1.60525$ $N_2 := 1.25656$ $N_3 := 1.90055$
 $N_4 := 2.42122$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^3 \cdot (B - C)}{A^2 \cdot B \cdot D} = 2.11407$$

$$Num := \frac{N_u^3 \cdot (B - C)}{\sqrt{[N_u^3 \cdot (B - C)]^2}}$$

$$Den := \frac{A^2 \cdot B \cdot D}{\sqrt{(A^2 \cdot B \cdot D)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u^3 \cdot (B - C) \cdot \sqrt{A^4 \cdot B^2 \cdot D^2}}{A^2 \cdot B \cdot D \cdot \sqrt{N_u^6 \cdot (B - C)^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

0, 0, 0, 4: 0

1, 0, 0, 0: 0

1, 0, 0, 4: 0

0, 2, 0, 0: $\frac{N_u^3 \cdot (B - 1) \cdot \sqrt{B^2}}{B \cdot \sqrt{N_u^6 \cdot (B - 1)^2}}$

0, 2, 0, 4: $\frac{N_u^3 \cdot (B - 1) \cdot \sqrt{B^2 \cdot D^2}}{B \cdot D \cdot \sqrt{N_u^6 \cdot (B - 1)^2}}$

1, 2, 0, 0: $\frac{N_u^3 \cdot (B - 1) \cdot \sqrt{A^4 \cdot B^2}}{A^2 \cdot B \cdot \sqrt{N_u^6 \cdot (B - 1)^2}}$

1, 2, 0, 4: $\frac{N_u^3 \cdot (B - 1) \cdot \sqrt{A^4 \cdot B^2 \cdot D^2}}{A^2 \cdot B \cdot D \cdot \sqrt{N_u^6 \cdot (B - 1)^2}}$

0, 0, 3, 0: $-\frac{N_u^3 \cdot (C - 1)}{\sqrt{N_u^6 \cdot (C - 1)^2}}$

0, 0, 3, 4: $-\frac{N_u^3 \cdot (C - 1) \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^6 \cdot (C - 1)^2}}$

1, 0, 3, 0: $-\frac{N_u^3 \cdot (C - 1) \cdot \sqrt{A^4}}{A^2 \cdot \sqrt{N_u^6 \cdot (C - 1)^2}}$

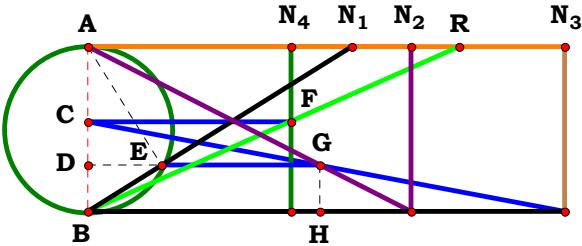
1, 0, 3, 4: $-\frac{N_u^3 \cdot (C - 1) \cdot \sqrt{A^4 \cdot D^2}}{A^2 \cdot D \cdot \sqrt{N_u^6 \cdot (C - 1)^2}}$

0, 2, 3, 0: $\frac{N_u^3 \cdot \sqrt{B^2} \cdot (B - C)}{B \cdot \sqrt{N_u^6 \cdot (B - C)^2}}$

0, 2, 3, 4: $\frac{N_u^3 \cdot \sqrt{B^2 \cdot D^2} \cdot (B - C)}{B \cdot D \cdot \sqrt{N_u^6 \cdot (B - C)^2}}$

1, 2, 3, 0: $\frac{N_u^3 \cdot \sqrt{A^4 \cdot B^2} \cdot (B - C)}{A^2 \cdot B \cdot \sqrt{N_u^6 \cdot (B - C)^2}}$

1, 2, 3, 4: $\frac{N_u^3 \cdot (B - C) \cdot \sqrt{A^4 \cdot B^2 \cdot D^2}}{A^2 \cdot B \cdot D \cdot \sqrt{N_u^6 \cdot (B - C)^2}}$



N₁ = 1.59556
N₂ = 1.95394
N₃ = 2.88850
N₄ = 1.22987
R = 2.24289

Unit. **AB** := 1 **Given.** **N₁** := 1.59556 **N₂** := 1.95394 **N₃** := 2.88850

N₄ := 1.22987

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$ **D** := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^3 \cdot (B - C) + A^2 \cdot B \cdot N_u}{A^2 \cdot B \cdot D} = 2.242895$$

$$Num := \frac{N_u^3 \cdot (B - C) + A^2 \cdot B \cdot N_u}{\sqrt{\left[N_u^3 \cdot (B - C) + A^2 \cdot B \cdot N_u\right]^2}}$$

$$Den := \frac{A^2 \cdot B \cdot D}{\sqrt{\left(A^2 \cdot B \cdot D\right)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$L - \frac{N_u \cdot \left(A^2 \cdot B + B \cdot N_u^2 - C \cdot N_u^2\right) \cdot \sqrt{A^4 \cdot B^2 \cdot D^2}}{A^2 \cdot B \cdot D \cdot \sqrt{\left[B \cdot A^2 \cdot N_u + (B - C) \cdot N_u^3\right]^2}} = 0$$



For 4 variables there are 16 subsets.

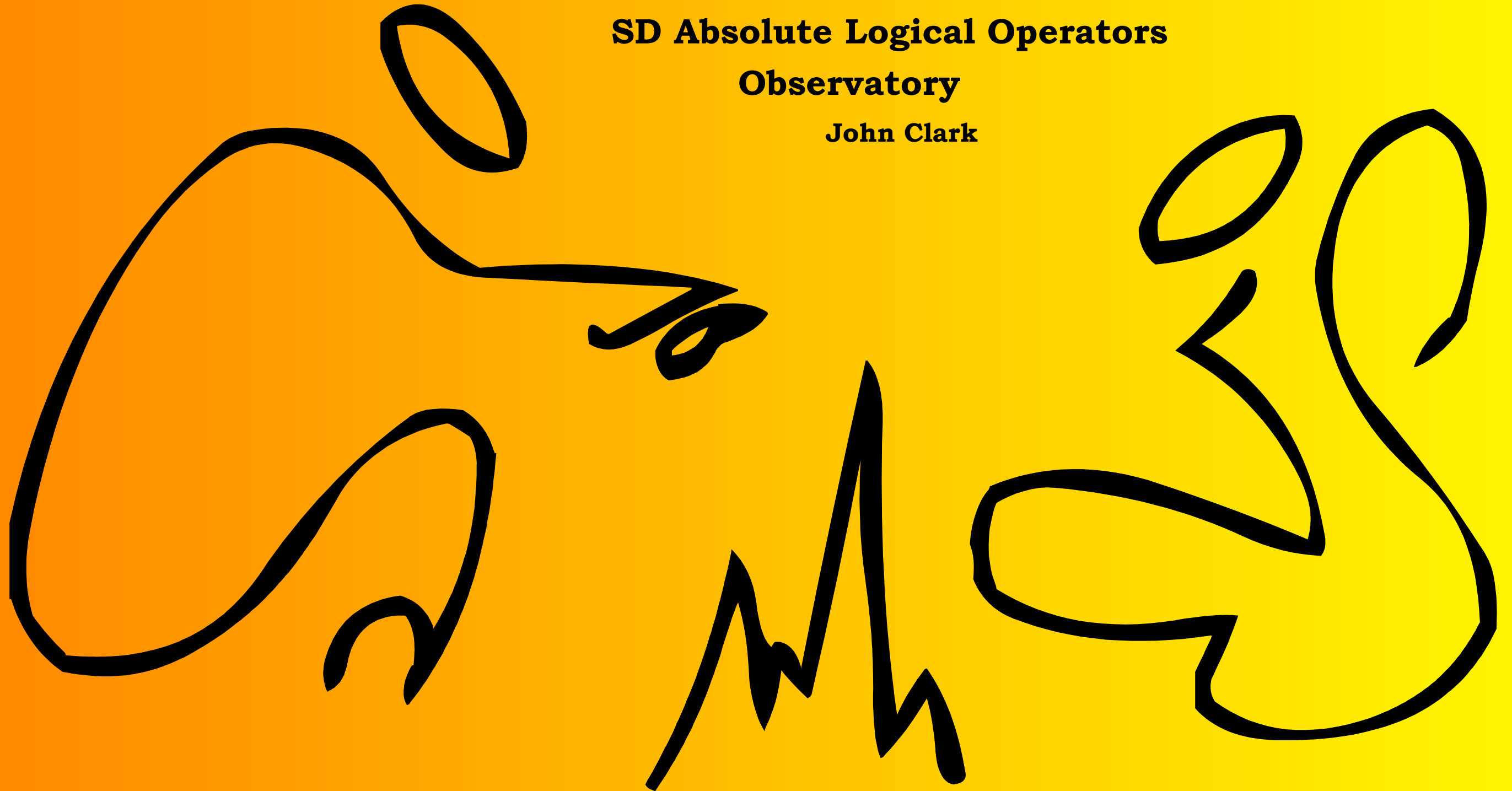
0, 0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 0, 4:	$\frac{N_u \cdot \sqrt{D^2}}{D \cdot \sqrt{N_u^2}}$
1, 0, 0, 0:	$\frac{N_u \cdot \sqrt{A^4}}{\sqrt{A^4 \cdot N_u^2}}$	1, 0, 0, 4:	$\frac{N_u \cdot \sqrt{A^4 \cdot D^2}}{D \cdot \sqrt{A^4 \cdot N_u^2}}$
0, 2, 0, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (B - N_u^2 + B \cdot N_u^2)}{B \cdot \sqrt{[(B - 1) \cdot N_u^3 + B \cdot N_u]^2}}$	0, 2, 0, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (B - N_u^2 + B \cdot N_u^2)}{B \cdot D \cdot \sqrt{[(B - 1) \cdot N_u^3 + B \cdot N_u]^2}}$
1, 2, 0, 0:	$\frac{N_u \cdot \sqrt{A^4 \cdot B^2} \cdot (A^2 \cdot B - N_u^2 + B \cdot N_u^2)}{A^2 \cdot B \cdot \sqrt{[B \cdot A^2 \cdot N_u + (B - 1) \cdot N_u^3]^2}}$	1, 2, 0, 4:	$\frac{N_u \cdot (A^2 \cdot B - N_u^2 + B \cdot N_u^2) \cdot \sqrt{A^4 \cdot B^2 \cdot D^2}}{A^2 \cdot B \cdot D \cdot \sqrt{[B \cdot A^2 \cdot N_u + (B - 1) \cdot N_u^3]^2}}$
0, 0, 3, 0:	$\frac{N_u \cdot (N_u^2 - C \cdot N_u^2 + 1)}{\sqrt{[N_u - N_u^3 \cdot (C - 1)]^2}}$	0, 0, 3, 4:	$\frac{N_u \cdot \sqrt{D^2} \cdot (N_u^2 - C \cdot N_u^2 + 1)}{D \cdot \sqrt{[N_u - N_u^3 \cdot (C - 1)]^2}}$
1, 0, 3, 0:	$\frac{N_u \cdot \sqrt{A^4} \cdot (A^2 + N_u^2 - C \cdot N_u^2)}{A^2 \cdot \sqrt{[N_u^3 \cdot (C - 1) - A^2 \cdot N_u]^2}}$	1, 0, 3, 4:	$\frac{N_u \cdot \sqrt{A^4 \cdot D^2} \cdot (A^2 + N_u^2 - C \cdot N_u^2)}{A^2 \cdot D \cdot \sqrt{[N_u^3 \cdot (C - 1) - A^2 \cdot N_u]^2}}$
0, 2, 3, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot (B + B \cdot N_u^2 - C \cdot N_u^2)}{B \cdot \sqrt{[(B - C) \cdot N_u^3 + B \cdot N_u]^2}}$	0, 2, 3, 4:	$\frac{N_u \cdot \sqrt{B^2 \cdot D^2} \cdot (B + B \cdot N_u^2 - C \cdot N_u^2)}{B \cdot D \cdot \sqrt{[(B - C) \cdot N_u^3 + B \cdot N_u]^2}}$
1, 2, 3, 0:	$\frac{N_u \cdot \sqrt{A^4 \cdot B^2} \cdot (A^2 \cdot B + B \cdot N_u^2 - C \cdot N_u^2)}{A^2 \cdot B \cdot \sqrt{[B \cdot A^2 \cdot N_u + (B - C) \cdot N_u^3]^2}}$	1, 2, 3, 4:	$\frac{N_u \cdot (A^2 \cdot B + B \cdot N_u^2 - C \cdot N_u^2) \cdot \sqrt{A^4 \cdot B^2 \cdot D^2}}{A^2 \cdot B \cdot D \cdot \sqrt{[B \cdot A^2 \cdot N_u + (B - C) \cdot N_u^3]^2}}$

Basic Analog Grammar

SD Absolute Logical Operators

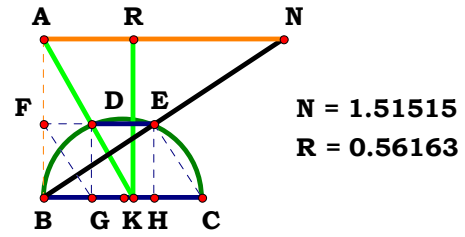
Observatory

John Clark



John 312

30BT1R0



Unit. AB := 1 Given. N := 1.51515

$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

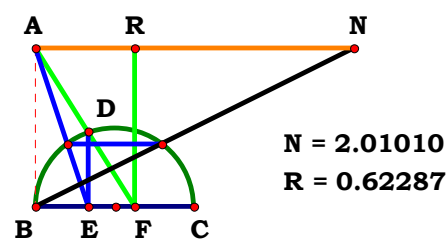
Descriptions.

$$\frac{\mathbf{A}^2}{\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2} = 0.561631 \quad \text{Num} := \frac{\mathbf{A}^2}{\sqrt{(\mathbf{A}^2)^2}} \quad \text{Den} := \frac{\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2}{\sqrt{(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A}^2 \cdot \sqrt{(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2}}{\sqrt{\mathbf{A}^4 \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N := 2.01010$

$N_u := 3$ $A := \frac{N_u}{N}$

Descriptions.

$$\frac{A^2}{A^2 + N_u \cdot (N_u - A) - A \cdot \sqrt{N_u \cdot (N_u - A)}} = 0.622867$$

$$Num := \frac{A^2}{\sqrt{(A^2)^2}}$$

$$Den := \frac{A^2 + N_u \cdot (N_u - A) - A \cdot \sqrt{N_u \cdot (N_u - A)}}{\sqrt{\left[A^2 + N_u \cdot (N_u - A) - A \cdot \sqrt{N_u \cdot (N_u - A)}\right]^2}}$$

$$L := \frac{Num}{Den}$$

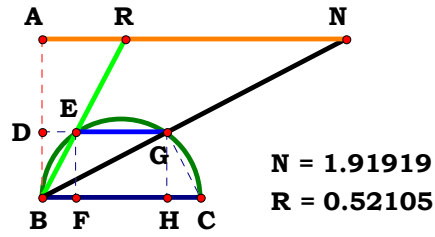
Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A^2 \cdot \sqrt{\left[N_u \cdot (A - N_u) - A^2 + A \cdot \sqrt{-N_u \cdot (A - N_u)}\right]^2}}{\sqrt{A^4 \cdot \left[A^2 + N_u^2 - A \cdot N_u - A \cdot \sqrt{-N_u \cdot (A - N_u)}\right]}} = 0$$



30BT1R2



Unit. AB := 1 Given. N := 1.91919

$$\mathbf{N}_u := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}}$$

Descriptions.

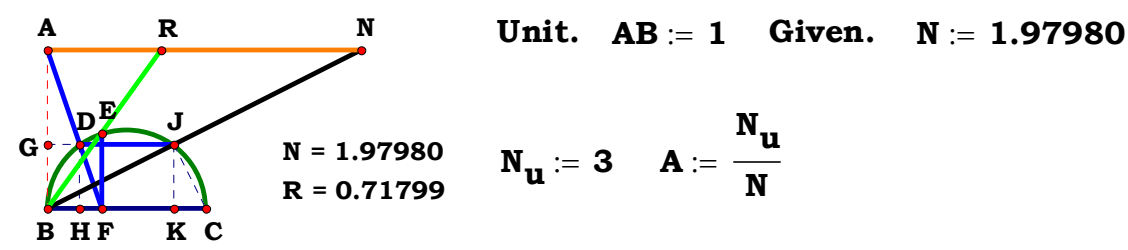
$$\frac{\mathbf{A}}{\mathbf{N}_{\mathbf{u}}} = \mathbf{0.521053} \quad \mathbf{Num} := \frac{\mathbf{A}}{\sqrt{(\mathbf{A})^2}} \quad \mathbf{Den} := \frac{\mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{N}_{\mathbf{u}})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\frac{\mathbf{A} \cdot \sqrt{\mathbf{N}_u^2}}{\mathbf{N}_u \cdot \sqrt{\mathbf{A}^2}} = 1$$

$$L - \frac{A \cdot \sqrt{N_u^2}}{N_u \cdot \sqrt{A^2}} = 0$$



Descriptions.

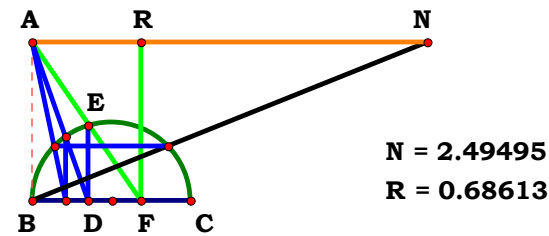
$$\frac{A}{\sqrt{N_u \cdot (N_u - A)}} = 0.717994 \quad \text{Num} := \frac{A}{\sqrt{(A)^2}} \quad \text{Den} := \frac{\sqrt{N_u \cdot (N_u - A)}}{\sqrt{[\sqrt{N_u \cdot (N_u - A)}]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$\frac{\text{Num}}{\text{Den}} = 1$$

$$L - \frac{A}{\sqrt{A^2}} = 0$$



Unit. $AB := 1$ Given. $N := 2.49495$

$N_u := 3$ $A := \frac{N_u}{N}$

Descriptions.

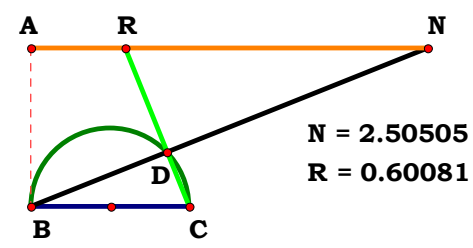
$$\frac{A^2}{A^2 - A \cdot \sqrt{N_u \cdot (N_u - A)} - A \cdot \sqrt{N_u \cdot (N_u - A)} + N_u \cdot (N_u - A) - A \cdot \sqrt{N_u \cdot (N_u - A)}} = 0.68613$$
 $Num := \frac{A^2}{\sqrt{(A^2)^2}}$

$$Den := \frac{A^2 - A \cdot \sqrt{N_u \cdot (N_u - A)} - A \cdot \sqrt{N_u \cdot (N_u - A)} + N_u \cdot (N_u - A) - A \cdot \sqrt{N_u \cdot (N_u - A)}}{\sqrt{\left[A^2 - A \cdot \sqrt{N_u \cdot (N_u - A)} - A \cdot \sqrt{N_u \cdot (N_u - A)} + N_u \cdot (N_u - A) - A \cdot \sqrt{N_u \cdot (N_u - A)} \right]^2}}$$
 $L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A^2 \cdot \sqrt{\left[A \cdot \sqrt{-N_u \cdot (A - N_u)} - A \cdot \sqrt{-N_u \cdot (A - N_u)} - A^2 + N_u \cdot (A - N_u) + A \cdot \sqrt{-N_u \cdot (A - N_u)} \right]^2}}{\sqrt{A^4 \cdot \left[A^2 + N_u^2 - A \cdot N_u - A \cdot \sqrt{-N_u \cdot (A - N_u)} - A \cdot \sqrt{-N_u \cdot (A - N_u)} - A \cdot \sqrt{-N_u \cdot (A - N_u)} \right]}} = 0$$



Unit. **AB** := 1 Given. **N** := 2.50505

N_u := 3 **A** := $\frac{N_{\mathbf{u}}}{N}$

Descriptions.

$$\frac{N_{\mathbf{u}} - \mathbf{A}}{N_{\mathbf{u}}} = 0.600806$$

$$\mathbf{Num} := \frac{N_{\mathbf{u}} - \mathbf{A}}{\sqrt{\left(N_{\mathbf{u}} - \mathbf{A}\right)^2}}$$

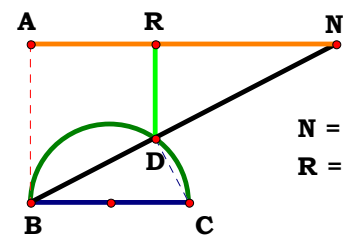
$$\mathbf{Den} := \frac{N_{\mathbf{u}}}{\sqrt{\left(N_{\mathbf{u}}\right)^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$\mathbf{L} - \frac{\sqrt{N_{\mathbf{u}}^2 \cdot \left(N_{\mathbf{u}} - \mathbf{A}\right)}}{N_{\mathbf{u}} \cdot \sqrt{\left(\mathbf{A} - N_{\mathbf{u}}\right)^2}} = 0$$



Unit. **AB** := 1 Given. **N** := 1.92929

N = 1.92929

R = 0.78823

N_u := 3 **A** := $\frac{\mathbf{N_u}}{\mathbf{N}}$

Descriptions.

$$\frac{\mathbf{N_u}^2}{\mathbf{A}^2 + \mathbf{N_u}^2} = 0.788232$$

Num := $\frac{\mathbf{N_u}^2}{\sqrt{\left(\mathbf{N_u}^2\right)^2}}$

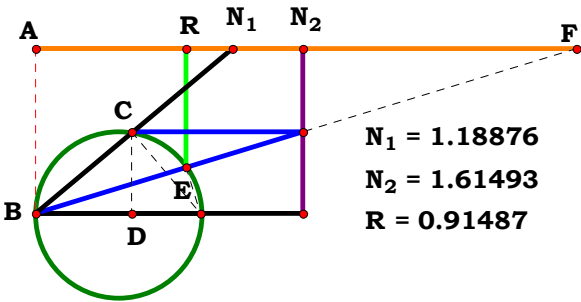
Den := $\frac{\mathbf{A}^2 + \mathbf{N_u}^2}{\sqrt{\left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2}}$

L := $\frac{\mathbf{Num}}{\mathbf{Den}}$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$\mathbf{L} - \frac{\mathbf{N_u}^2 \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2}}{\sqrt{\mathbf{N_u}^4 \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2\right)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.18876$ $N_2 := 1.61493$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{\left(A^2+N_u^2\right)^2}{A^4+A^2\cdot B^2+N_u^2\cdot\left(2\cdot A^2+N_u^2\right)}=0.914872$$

$$Num:=\frac{\left(A^2+N_u^2\right)^2}{\sqrt{\left[\left(A^2+N_u^2\right)^2\right]^2}}$$

$$Den:=\frac{A^4+A^2\cdot B^2+N_u^2\cdot\left(2\cdot A^2+N_u^2\right)}{\sqrt{\left[A^4+A^2\cdot B^2+N_u^2\cdot\left(2\cdot A^2+N_u^2\right)\right]^2}}$$

$$L:=\frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L-\frac{\left(A^2+N_u^2\right)^2\cdot\sqrt{\left[N_u^2\cdot\left(2\cdot A^2+N_u^2\right)+A^4+A^2\cdot B^2\right]^2}}{\sqrt{\left(A^2+N_u^2\right)^4\cdot\left(A^4+A^2\cdot B^2+2\cdot A^2\cdot N_u^2+N_u^4\right)}}=0$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{\left(N_u^2+1\right)^2 \cdot \sqrt{\left[N_u^2 \cdot\left(N_u^2+2\right)+2\right]^2}}{\sqrt{\left(N_u^2+1\right)^4 \cdot\left(N_u^4+2 \cdot N_u^2+2\right)}}$$

1, 0:

$$\frac{\sqrt{\left[N_u^2 \cdot\left(2 \cdot A^2+N_u^2\right)+A^2+A^4\right]^2} \cdot\left(A^2+N_u^2\right)^2}{\sqrt{\left(A^2+N_u^2\right)^4 \cdot\left(A^4+2 \cdot A^2 \cdot N_u^2+A^2+N_u^4\right)}}$$

0, 2:

$$\frac{\sqrt{\left[B^2+N_u^2 \cdot\left(N_u^2+2\right)+1\right]^2} \cdot\left(N_u^2+1\right)^2}{\sqrt{\left(N_u^2+1\right)^4 \cdot\left(B^2+N_u^4+2 \cdot N_u^2+1\right)}}$$

1, 2:

$$\frac{\left(A^2+N_u^2\right)^2 \cdot \sqrt{\left[N_u^2 \cdot\left(2 \cdot A^2+N_u^2\right)+A^4+A^2 \cdot B^2\right]^2}}{\sqrt{\left(A^2+N_u^2\right)^4 \cdot\left(A^4+A^2 \cdot B^2+2 \cdot A^2 \cdot N_u^2+N_u^4\right)}}$$

Descriptions.



$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

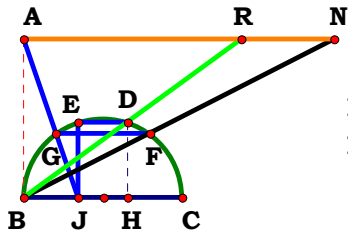
$$\mathbf{Num} := \frac{\sqrt{\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{N_u}} - \mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{N_u}}}{\sqrt{\left(\sqrt{\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{N_u}} - \mathbf{A} \cdot \sqrt{\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{N_u}}\right)^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A}}{\sqrt{(\mathbf{A})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

$$\frac{\sqrt{\mathbf{A}^2}}{\mathbf{A}} = \mathbf{1}$$

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2}}{\mathbf{A}} = \mathbf{0}$$


$$\frac{\sqrt{\mathbf{N}_u \cdot (\mathbf{N}_u - \mathbf{A})}}{\mathbf{A}} = 1.371289$$


N = 1.95960
R = 1.37128

Unit. $AB := 1$ Given. $N := 1.95960$

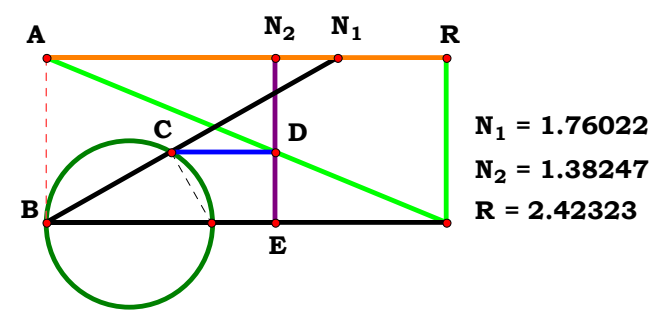
$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{N}_{\mathbf{u}} - \mathbf{A})}}{\sqrt{[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{N}_{\mathbf{u}} - \mathbf{A})}]^2}} \quad \mathbf{Den} := \frac{\mathbf{A}}{\sqrt{(\mathbf{A})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\frac{\sqrt{\mathbf{A}^2}}{\mathbf{A}} = \mathbf{1}$$

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2}}{\mathbf{A}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.76022$ $N_2 := 1.38247$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u \cdot (A^2 + N_u^2)}{B \cdot (A^2 - A \cdot N_u + N_u^2)} = 2.423227$$

$$Num := \frac{N_u \cdot (A^2 + N_u^2)}{\sqrt{[N_u \cdot (A^2 + N_u^2)]^2}}$$

$$Den := \frac{B \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{[B \cdot (A^2 - A \cdot N_u + N_u^2)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2 \cdot (A^2 + N_u^2)}}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 - A \cdot N_u + N_u^2)}} = 0$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u \cdot (N_u^2 + 1) \cdot \sqrt{(N_u^2 - N_u + 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2} \cdot (N_u^2 - N_u + 1)}$$

1, 0:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 - A \cdot N_u + N_u^2)}$$

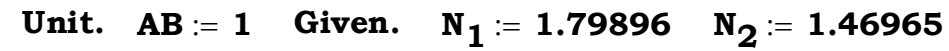
0, 2:

$$\frac{N_u \cdot \sqrt{B^2 \cdot (N_u^2 - N_u + 1)^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2} \cdot (N_u^2 - N_u + 1)}$$

1, 2:

$$\frac{N_u \cdot \sqrt{B^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2} \cdot (A^2 + N_u^2)}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 - A \cdot N_u + N_u^2)}$$

Descriptions.



$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2}$$

$$\frac{\mathbf{A}^2 + \mathbf{N}_u^2}{\mathbf{A} \cdot \mathbf{B}} = 3.460786 \quad \mathbf{Num} := \frac{\mathbf{A}^2 + \mathbf{N}_u^2}{\sqrt{(\mathbf{A}^2 + \mathbf{N}_u^2)^2}} \quad \mathbf{Den} := \frac{\mathbf{A} \cdot \mathbf{B}}{\sqrt{(\mathbf{A} \cdot \mathbf{B})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{(\mathbf{A}^2 + \mathbf{N}_u^2)^2}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{\mathbf{N_u}^2 + 1}{\sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$$

1, 0:

$$\frac{\sqrt{\mathbf{A}^2} \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2\right)}{\mathbf{A} \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2}}$$

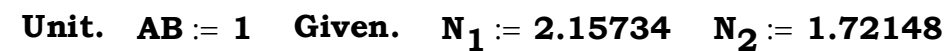
0, 2:

$$\frac{\sqrt{\mathbf{B}^2} \cdot \left(\mathbf{N_u}^2 + 1\right)}{\mathbf{B} \cdot \sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$$

1, 2:

$$\frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2} \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2\right)}{\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2}}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\frac{A^2 - A \cdot N_u + N_u^2}{A \cdot B} = 2.790302$$

$$\mathbf{Num} := \frac{\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2}{\sqrt{(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2}} \quad \mathbf{Den} := \frac{\mathbf{A} \cdot \mathbf{B}}{\sqrt{(\mathbf{A} \cdot \mathbf{B})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u^2 - N_u + 1}{\sqrt{(N_u^2 - N_u + 1)^2}}$$

1, 0:

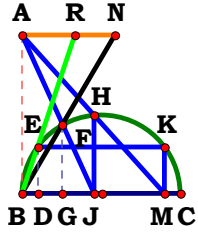
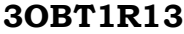
$$\frac{\sqrt{A^2} \cdot (A^2 - A \cdot N_u + N_u^2)}{A \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2)^2}}$$

0, 2:

$$\frac{\sqrt{B^2} \cdot (N_u^2 - N_u + 1)}{B \cdot \sqrt{(N_u^2 - N_u + 1)^2}}$$

1, 2:

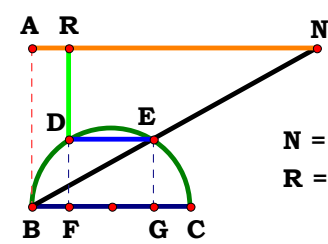
$$\frac{\sqrt{A^2 \cdot B^2} \cdot (A^2 - A \cdot N_u + N_u^2)}{A \cdot B \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2)^2}}$$


$$\begin{aligned} \mathbf{N} &= 0.58586 \\ \mathbf{R} &= 0.32886 \end{aligned} \quad \mathbf{N}_{\mathbf{u}} := 3 \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$
$$\frac{\sqrt{\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_u - \mathbf{N}_u \cdot \sqrt{\mathbf{A} \cdot (\mathbf{A} - \mathbf{N}_u)}}}{\mathbf{N}_u} = 0.328848$$

$$\text{Num} := \frac{\sqrt{\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}}}{\sqrt{\left[\sqrt{\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{A} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}}\right]^2}} \quad \text{Den} := \frac{\mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{N}_{\mathbf{u}})^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{N}_u^2}}{\mathbf{N}_u} = \mathbf{0}$$



N = 1.79798
R = 0.23625

Unit. AB := 1 Given. N := 1.79798

$N_u := 3$ $A := \frac{N_u}{N}$

Descriptions.

$$\frac{A^2}{A^2 + N_u^2} = 0.236254$$

$$\text{Num} := \frac{A^2}{\sqrt{(A^2)^2}}$$

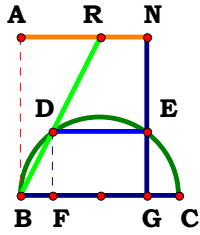
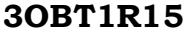
$$\text{Den} := \frac{A^2 + N_u^2}{\sqrt{(A^2 + N_u^2)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{A^2 \cdot \sqrt{(A^2 + N_u^2)^2}}{\sqrt{A^4 \cdot (A^2 + N_u^2)}} = 0$$



R = 0.50315

Unit. **AB** := **1** **Given.** **N** := **.79798**

$$\mathbf{N}_u := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}}$$

Descriptions.

$$\frac{\mathbf{A} - \mathbf{N}_{\mathbf{u}}}{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}} = 0.503154$$

$$\mathbf{Num} := \frac{\mathbf{A} - \mathbf{N}_u}{\sqrt{(\mathbf{A} - \mathbf{N}_u)^2}}$$

$$\mathbf{Den} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}}{\sqrt{[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

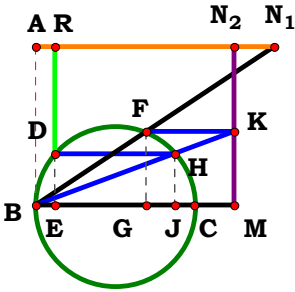
Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} - \mathbf{N}_u}{\sqrt{(\mathbf{A} - \mathbf{N}_u)^2}} = \mathbf{0}$$



30BT02R0



$N_1 = 1.50505$
 $N_2 = 1.25253$
 $R = 0.11928$

Unit. $AB := 1$ Given. $N_1 := 1.50505$ $N_2 := 1.25253$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{A^2 \cdot B^2}{A^4 + A^2 \cdot B^2 + N_u^2 \cdot (2 \cdot A^2 + N_u^2)} = 0.119276$$

$$\text{Num} := \frac{A^2 \cdot B^2}{\sqrt{(A^2 \cdot B^2)^2}}$$

$$\text{Den} := \frac{A^4 + A^2 \cdot B^2 + N_u^2 \cdot (2 \cdot A^2 + N_u^2)}{\sqrt{[A^4 + A^2 \cdot B^2 + N_u^2 \cdot (2 \cdot A^2 + N_u^2)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{A^2 \cdot B^2 \cdot \sqrt{[N_u^2 \cdot (2 \cdot A^2 + N_u^2) + A^4 + A^2 \cdot B^2]^2}}{\sqrt{A^4 \cdot B^4 \cdot (A^4 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 + N_u^4)}} = 0$$



For 2 variables there are 4 subsets.

0, 0:
$$\frac{\sqrt{\left[N_u^2 \cdot (N_u^2 + 2) + 2\right]^2}}{N_u^4 + 2 \cdot N_u^2 + 2}$$

1, 0:
$$\frac{A^2 \cdot \sqrt{\left[N_u^2 \cdot (2 \cdot A^2 + N_u^2) + A^2 + A^4\right]^2}}{\sqrt{A^4 \cdot (A^4 + 2 \cdot A^2 \cdot N_u^2 + A^2 + N_u^4)}}$$

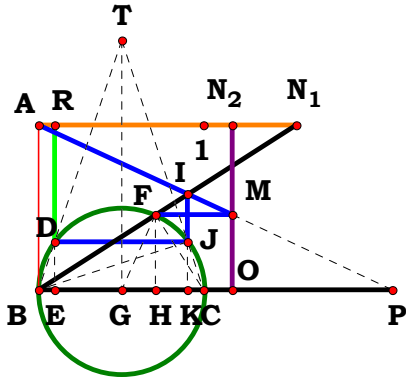
0, 2:
$$\frac{B^2 \cdot \sqrt{\left[B^2 + N_u^2 \cdot (N_u^2 + 2) + 1\right]^2}}{\sqrt{B^4 \cdot (B^2 + N_u^4 + 2 \cdot N_u^2 + 1)}}$$

1, 2:
$$\frac{A^2 \cdot B^2 \cdot \sqrt{\left[N_u^2 \cdot (2 \cdot A^2 + N_u^2) + A^4 + A^2 \cdot B^2\right]^2}}{\sqrt{A^4 \cdot B^4 \cdot (A^4 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 + N_u^4)}}$$



30BT2R1

Descriptions.



$N_1 = 1.55688$
 $N_2 = 1.16939$
 $R = 0.09797$

Unit. $AB := 1$ Given. $N_1 := 1.55688$ $N_2 := 1.16939$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

$$\frac{(A+B) \cdot N_u^2 - N_u^3 + A \cdot (A - N_u) \cdot (A+B)}{B \cdot (A^2 - A \cdot N_u + N_u^2) + A \cdot (A^2 + N_u^2)} = 0.09797$$

$$\text{Num} := \frac{(A+B) \cdot N_u^2 - N_u^3 + A \cdot (A - N_u) \cdot (A+B)}{\sqrt{\left[(A+B) \cdot N_u^2 - N_u^3 + A \cdot (A - N_u) \cdot (A+B) \right]^2}}$$

$$\text{Den} := \frac{B \cdot (A^2 - A \cdot N_u + N_u^2) + A \cdot (A^2 + N_u^2)}{\sqrt{\left[B \cdot (A^2 - A \cdot N_u + N_u^2) + A \cdot (A^2 + N_u^2) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{\left[B \cdot (A^2 - A \cdot N_u + N_u^2) + A \cdot (A^2 + N_u^2) \right]^2} \cdot (A^3 - A^2 \cdot N_u + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u - N_u^3 + B \cdot N_u^2)}{(A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2) \cdot \sqrt{\left[N_u^2 \cdot (A+B) - N_u^3 + A \cdot (A+B) \cdot (A - N_u) \right]^2}} = 0$$



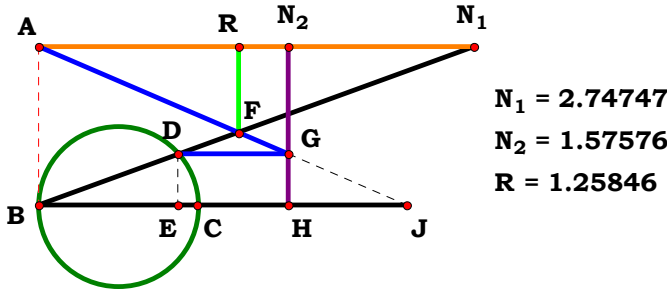
For 2 variables there are 4 subsets.

0, 0:
$$-\frac{\sqrt{\left(2 \cdot N_u^2 - N_u + 2\right)^2} \cdot \left(N_u^3 - 2 \cdot N_u^2 + 2 \cdot N_u - 2\right)}{\sqrt{\left(N_u^3 - 2 \cdot N_u^2 + 2 \cdot N_u - 2\right)^2} \cdot \left(2 \cdot N_u^2 - N_u + 2\right)}$$

1, 0:
$$\frac{\sqrt{\left[A \cdot \left(A^2 + N_u^2\right) + A^2 + N_u^2 - A \cdot N_u\right]^2} \cdot \left(A^3 - A^2 \cdot N_u + A^2 + A \cdot N_u^2 - A \cdot N_u - N_u^3 + N_u^2\right)}{\sqrt{\left[N_u^2 \cdot (A + 1) - N_u^3 + A \cdot (A + 1) \cdot (A - N_u)\right]^2} \cdot \left(A^3 + A^2 + A \cdot N_u^2 - A \cdot N_u + N_u^2\right)}$$

0, 2:
$$\frac{\sqrt{\left[B \cdot \left(N_u^2 - N_u + 1\right) + N_u^2 + 1\right]^2} \cdot \left(B - N_u + N_u^2 - N_u^3 - B \cdot N_u + B \cdot N_u^2 + 1\right)}{\sqrt{\left[N_u^3 + (B + 1) \cdot (N_u - 1) - N_u^2 \cdot (B + 1)\right]^2} \cdot \left(B + N_u^2 - B \cdot N_u + B \cdot N_u^2 + 1\right)}$$

1, 2:
$$\frac{\sqrt{\left[B \cdot \left(A^2 - A \cdot N_u + N_u^2\right) + A \cdot \left(A^2 + N_u^2\right)\right]^2} \cdot \left(A^3 - A^2 \cdot N_u + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u - N_u^3 + B \cdot N_u^2\right)}{\left(A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2\right) \cdot \sqrt{\left[N_u^2 \cdot (A + B) - N_u^3 + A \cdot (A + B) \cdot (A - N_u)\right]^2}}$$



Unit. $AB := 1$ Given. $N_1 := 2.74747$ $N_2 := 1.57576$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2}$$

Descriptions.

$$\frac{N_u \cdot (A^2 + N_u^2)}{(A^2 + N_u^2) \cdot (A + B) - A \cdot B \cdot N_u} = 1.258457 \quad \text{Num} := \frac{N_u \cdot (A^2 + N_u^2)}{\sqrt{[N_u \cdot (A^2 + N_u^2)]^2}} \quad \text{Den} := \frac{(A^2 + N_u^2) \cdot (A + B) - A \cdot B \cdot N_u}{\sqrt{[(A^2 + N_u^2) \cdot (A + B) - A \cdot B \cdot N_u]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{[(A^2 + N_u^2) \cdot (A + B) - A \cdot B \cdot N_u]^2} \cdot (A^2 + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)}} = 0$$



For 2 variables there are 4 subsets.

0, 0:
$$\frac{N_u \cdot \sqrt{(2 \cdot N_u^2 - N_u + 2)^2 \cdot (N_u^2 + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (2 \cdot N_u^2 - N_u + 2)}}$$

1, 0:
$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{[A \cdot N_u - (A + 1) \cdot (A^2 + N_u^2)]^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^3 + A^2 + A \cdot N_u^2 - A \cdot N_u + N_u^2)}}$$

0, 2:
$$\frac{N_u \cdot (N_u^2 + 1) \cdot \sqrt{[B \cdot N_u - (B + 1) \cdot (N_u^2 + 1)]^2}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (B + N_u^2 - B \cdot N_u + B \cdot N_u^2 + 1)}}$$

1, 2:
$$\frac{N_u \cdot \sqrt{[(A^2 + N_u^2) \cdot (A + B) - A \cdot B \cdot N_u]^2 \cdot (A^2 + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)}}$$



$$\begin{aligned} N_1 &= 1.62626 \\ N_2 &= 1.15152 \\ R &= 0.86946 \end{aligned}$$

Unit. $AB := 1$ **Given.** $N_1 := 1.62626$ $N_2 := 1.15152$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\frac{\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)^2}{\mathbf{A}^4 + \mathbf{A}^2 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4} = 0.869456 \quad \text{Num} := \frac{\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)^2}{\sqrt{\left[\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)^2\right]^2}} \quad \text{Den} := \frac{\mathbf{A}^4 + \mathbf{A}^2 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4}{\sqrt{\left(\mathbf{A}^4 + \mathbf{A}^2 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4\right)^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)^2 \cdot \sqrt{\left(\mathbf{A}^4 + \mathbf{A}^2 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4\right)^2}}{\sqrt{\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)^4 \cdot \left(\mathbf{A}^4 + \mathbf{A}^2 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4\right)}} = \mathbf{0}$$



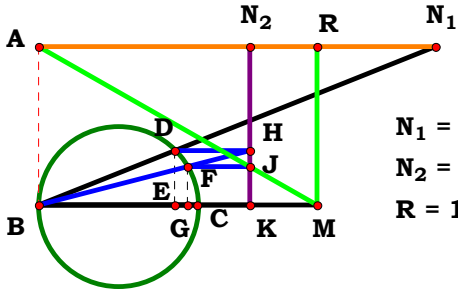
For 2 variables there are 4 subsets.

$$\mathbf{0, 0:} \quad \frac{\sqrt{\left(N_u^4 + 2 \cdot N_u^2 + 2\right)^2 \cdot \left(N_u^2 + 1\right)^2}}{\sqrt{\left(N_u^2 + 1\right)^4 \cdot \left(N_u^4 + 2 \cdot N_u^2 + 2\right)}}$$

$$\mathbf{1, 0:} \quad \frac{\left(A^2 + N_u^2\right)^2 \cdot \sqrt{\left(A^4 + 2 \cdot A^2 \cdot N_u^2 + A^2 + N_u^4\right)^2}}{\sqrt{\left(A^2 + N_u^2\right)^4 \cdot \left(A^4 + 2 \cdot A^2 \cdot N_u^2 + A^2 + N_u^4\right)}}$$

$$\mathbf{0, 2:} \quad \frac{\sqrt{\left(B^2 + N_u^4 + 2 \cdot N_u^2 + 1\right)^2 \cdot \left(N_u^2 + 1\right)^2}}{\sqrt{\left(N_u^2 + 1\right)^4 \cdot \left(B^2 + N_u^4 + 2 \cdot N_u^2 + 1\right)}}$$

$$\mathbf{1, 2:} \quad \frac{\left(A^2 + N_u^2\right)^2 \cdot \sqrt{\left(A^4 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 + N_u^4\right)^2}}{\sqrt{\left(A^2 + N_u^2\right)^4 \cdot \left(A^4 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 + N_u^4\right)}}$$



Unit. $AB := 1$ Given. $N_1 := 2.50505$ $N_2 := 1.33333$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2}$$

$N_1 = 2.50505$
 $N_2 = 1.33333$
 $R = 1.75924$

Descriptions.

$$\frac{A^2 \cdot N_u \cdot (A^2 + B^2) + N_u^3 \cdot (2 \cdot A^2 + N_u^2)}{A^2 \cdot B^3 + B \cdot (A^2 + N_u^2) \cdot (A^2 - B \cdot A + N_u^2)} = 1.759238$$

$$Num := \frac{A^2 \cdot N_u \cdot (A^2 + B^2) + N_u^3 \cdot (2 \cdot A^2 + N_u^2)}{\sqrt{\left[A^2 \cdot N_u \cdot (A^2 + B^2) + N_u^3 \cdot (2 \cdot A^2 + N_u^2)\right]^2}}$$

$$Den := \frac{A^2 \cdot B^3 + B \cdot (A^2 + N_u^2) \cdot (A^2 - B \cdot A + N_u^2)}{\sqrt{\left[A^2 \cdot B^3 + B \cdot (A^2 + N_u^2) \cdot (A^2 - B \cdot A + N_u^2)\right]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\sqrt{\left[A^2 \cdot B^3 + B \cdot (A^2 + N_u^2) \cdot (A^2 - B \cdot A + N_u^2)\right]^2} \cdot N_u \cdot (A^4 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 + N_u^4)}{\sqrt{\left[N_u^3 \cdot (2 \cdot A^2 + N_u^2) + A^2 \cdot N_u \cdot (A^2 + B^2)\right]^2} \cdot B \cdot (A^4 - A^3 \cdot B + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 - A \cdot B \cdot N_u^2 + N_u^4)} = 0$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u \cdot \sqrt{\left[N_u^2 \cdot (N_u^2 + 1) + 1\right]^2} \cdot (N_u^4 + 2 \cdot N_u^2 + 2)}{\sqrt{\left[2 \cdot N_u + N_u^3 \cdot (N_u^2 + 2)\right]^2} \cdot (N_u^4 + N_u^2 + 1)}$$

1, 0:

$$\frac{N_u \cdot \sqrt{\left[A^2 + (A^2 + N_u^2) \cdot (A^2 - A + N_u^2)\right]^2} \cdot (A^4 + 2 \cdot A^2 \cdot N_u^2 + A^2 + N_u^4)}{\sqrt{\left[N_u^3 \cdot (2 \cdot A^2 + N_u^2) + A^2 \cdot N_u \cdot (A^2 + 1)\right]^2} \cdot (A^4 - A^3 + 2 \cdot A^2 \cdot N_u^2 + A^2 - A \cdot N_u^2 + N_u^4)}$$

0, 2:

$$\frac{N_u \cdot \sqrt{\left[B^3 + B \cdot (N_u^2 + 1) \cdot (N_u^2 - B + 1)\right]^2} \cdot (B^2 + N_u^4 + 2 \cdot N_u^2 + 1)}{B \cdot \sqrt{\left[N_u \cdot (B^2 + 1) + N_u^3 \cdot (N_u^2 + 2)\right]^2} \cdot (B^2 - B \cdot N_u^2 - B + N_u^4 + 2 \cdot N_u^2 + 1)}$$

1, 2:

$$\frac{\sqrt{\left[A^2 \cdot B^3 + B \cdot (A^2 + N_u^2) \cdot (A^2 - B \cdot A + N_u^2)\right]^2} \cdot N_u \cdot (A^4 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 + N_u^4)}{\sqrt{\left[N_u^3 \cdot (2 \cdot A^2 + N_u^2) + A^2 \cdot N_u \cdot (A^2 + B^2)\right]^2} \cdot B \cdot (A^4 - A^3 \cdot B + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 - A \cdot B \cdot N_u^2 + N_u^4)}$$

30BT2R5

$N_1 = 1.44444$
 $N_2 = 1.20202$
 $R = 1.77715$

Unit. AB := 1 **Given.** $N_1 := 1.44444$ $N_2 := 1.20202$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\frac{N_u^2 \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)}{B \cdot \left[A \cdot N_u^3 - \sqrt{N_u^3 \cdot (A + B) \cdot (A^4 - A^3 \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + N_u^4)} - N_u^6 \cdot (2 \cdot A^2 + B \cdot A + N_u^2) + N_u \cdot \left[A^3 + B \cdot (A^2 - A \cdot N_u + N_u^2) \right] \right]} = 1.777157$$

$$\mathbf{Num} := \frac{\mathbf{N_u}^2 \cdot (\mathbf{A}^3 + \mathbf{B} \cdot \mathbf{A}^2 + \mathbf{A} \cdot \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{A} \cdot \mathbf{N_u} + \mathbf{B} \cdot \mathbf{N_u}^2)}{\sqrt{\left[\mathbf{N_u}^2 \cdot (\mathbf{A}^3 + \mathbf{B} \cdot \mathbf{A}^2 + \mathbf{A} \cdot \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{A} \cdot \mathbf{N_u} + \mathbf{B} \cdot \mathbf{N_u}^2) \right]^2}}$$

$$\text{Den} := \frac{\mathbf{B} \cdot \left[\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^3 - \sqrt{\mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^4 - \mathbf{A}^3 \cdot \mathbf{N}_{\mathbf{u}} + 2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4)} - \mathbf{N}_{\mathbf{u}}^6 \cdot (2 \cdot \mathbf{A}^2 + \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2) + \mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{A}^3 + \mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2) \right] \right]}{\sqrt{\left[\mathbf{B} \cdot \left[\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^3 - \sqrt{\mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^4 - \mathbf{A}^3 \cdot \mathbf{N}_{\mathbf{u}} + 2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{N}_{\mathbf{u}}^4)} - \mathbf{N}_{\mathbf{u}}^6 \cdot (2 \cdot \mathbf{A}^2 + \mathbf{B} \cdot \mathbf{A} + \mathbf{N}_{\mathbf{u}}^2) + \mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{A}^3 + \mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2) \right] \right] \right]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^2 \cdot \sqrt{B^2 \cdot [N_u \cdot [B \cdot (A^2 - A \cdot N_u + N_u^2) + A^3] - \sqrt{N_u^3 \cdot (A + B) \cdot (A^4 - A^3 \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + N_u^4) - N_u^6 \cdot (2 \cdot A^2 + B \cdot A + N_u^2) + A \cdot N_u^3}]^2 \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)}}{B \cdot \sqrt{N_u^4 \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)^2 \cdot [A \cdot N_u^3 - \sqrt{N_u^3 \cdot (A + B) \cdot (A^4 - A^3 \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + N_u^4) - N_u^6 \cdot (2 \cdot A^2 + B \cdot A + N_u^2) + A^3 \cdot N_u + B \cdot N_u^3 - A \cdot B \cdot N_u^2 + A^2 \cdot B \cdot N_u}]}} = 0$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u^2 \cdot \sqrt{\left[N_u \cdot (N_u^2 - N_u + 2) - \sqrt{2 \cdot N_u^3 \cdot (N_u^4 + 2 \cdot N_u^2 - N_u + 1)} - N_u^6 \cdot (N_u^2 + 3) + N_u^3 \right]^2} \cdot (2 \cdot N_u^2 - N_u + 2)}{\sqrt{N_u^4 \cdot (2 \cdot N_u^2 - N_u + 2)^2} \cdot \left[\sqrt{2 \cdot N_u^3 \cdot (N_u^4 + 2 \cdot N_u^2 - N_u + 1)} - N_u^6 \cdot (N_u^2 + 3) - 2 \cdot N_u + N_u^2 - 2 \cdot N_u^3 \right]}$$

1, 0:

$$\frac{N_u^2 \cdot \sqrt{\left[N_u \cdot (A^3 + A^2 - A \cdot N_u + N_u^2) - \sqrt{N_u^3 \cdot (A + 1) \cdot (A^4 - A^3 \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + N_u^4)} - N_u^6 \cdot (2 \cdot A^2 + A + N_u^2) + A \cdot N_u^3 \right]^2} \cdot (A^3 + A^2 + A \cdot N_u^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^4 \cdot (A^3 + A^2 + A \cdot N_u^2 - A \cdot N_u + N_u^2)^2} \cdot \left[N_u^3 - \sqrt{N_u^3 \cdot (A + 1) \cdot (A^4 - A^3 \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + N_u^4)} - N_u^6 \cdot (2 \cdot A^2 + A + N_u^2) - A \cdot N_u^2 + A^2 \cdot N_u + A \cdot N_u^3 + A^3 \cdot N_u \right]}$$

0, 2:

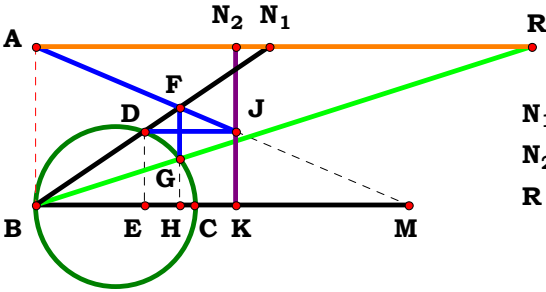
$$\frac{N_u^2 \cdot \sqrt{B^2 \cdot \left[N_u^3 - \sqrt{N_u^3 \cdot (B + 1) \cdot (N_u^4 + 2 \cdot N_u^2 - N_u + 1)} - N_u^6 \cdot (N_u^2 + B + 2) + N_u \cdot \left[B \cdot (N_u^2 - N_u + 1) + 1 \right] \right]^2} \cdot (B + N_u^2 - B \cdot N_u + B \cdot N_u^2 + 1)}{B \cdot \sqrt{N_u^4 \cdot (B + N_u^2 - B \cdot N_u + B \cdot N_u^2 + 1)^2} \cdot \left[N_u - \sqrt{N_u^3 \cdot (B + 1) \cdot (N_u^4 + 2 \cdot N_u^2 - N_u + 1)} - N_u^6 \cdot (N_u^2 + B + 2) + N_u^3 + B \cdot N_u - B \cdot N_u^2 + B \cdot N_u^3 \right]}$$

1, 2:

$$\frac{N_u^2 \cdot \sqrt{B^2 \cdot \left[N_u \cdot \left[B \cdot (A^2 - A \cdot N_u + N_u^2) + A^3 \right] - \sqrt{N_u^3 \cdot (A + B) \cdot (A^4 - A^3 \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + N_u^4)} - N_u^6 \cdot (2 \cdot A^2 + B \cdot A + N_u^2) + A \cdot N_u^3 \right]^2} \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)}{B \cdot \sqrt{N_u^4 \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)^2} \cdot \left[A \cdot N_u^3 - \sqrt{N_u^3 \cdot (A + B) \cdot (A^4 - A^3 \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + N_u^4)} - N_u^6 \cdot (2 \cdot A^2 + B \cdot A + N_u^2) + A^3 \cdot N_u + B \cdot N_u^3 - A \cdot B \cdot N_u^2 + A^2 \cdot B \cdot N_u \right]}$$



30BT2R6



N₁ = 1.47475
N₂ = 1.26263
R = 3.12814

Unit. AB := 1 Given. N₁ := 1.47475 N₂ := 1.26263

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u^2 \cdot (A^2 + N_u^2)}{\sqrt{N_u^3 \cdot (A^2 + N_u^2) \cdot \left[(A^2 - A \cdot N_u + N_u^2) \cdot (A + B) - N_u^3 \right]}} = 3.128177$$

$$\text{Num} := \frac{N_u^2 \cdot (A^2 + N_u^2)}{\sqrt{\left[N_u^2 \cdot (A^2 + N_u^2) \right]^2}}$$

$$\text{Den} := \frac{\sqrt{N_u^3 \cdot (A^2 + N_u^2) \cdot \left[(A^2 - A \cdot N_u + N_u^2) \cdot (A + B) - N_u^3 \right]}}{\sqrt{\left[\sqrt{N_u^3 \cdot (A^2 + N_u^2) \cdot \left[(A^2 - A \cdot N_u + N_u^2) \cdot (A + B) - N_u^3 \right]} \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^2 \cdot (A^2 + N_u^2)}{\sqrt{N_u^4 \cdot (A^2 + N_u^2)^2}} = 0$$



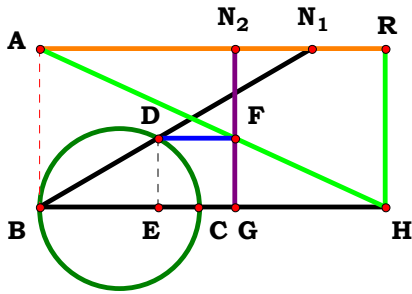
For 2 variables there are 4 subsets.

0, 0:
$$\frac{N_u^2 \cdot (N_u^2 + 1)}{\sqrt{N_u^4 \cdot (N_u^2 + 1)^2}}$$

1, 0:
$$\frac{N_u^2 \cdot (A^2 + N_u^2)}{\sqrt{N_u^4 \cdot (A^2 + N_u^2)^2}}$$

0, 2:
$$\frac{N_u^2 \cdot (N_u^2 + 1)}{\sqrt{N_u^4 \cdot (N_u^2 + 1)^2}}$$

1, 2:
$$\frac{N_u^2 \cdot (A^2 + N_u^2)}{\sqrt{N_u^4 \cdot (A^2 + N_u^2)^2}}$$



$N_1 = 1.71717$
 $N_2 = 1.23232$
 $R = 2.18061$

Unit. $AB := 1$ Given. $N_1 := 1.71717$ $N_2 := 1.23232$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u \cdot (A^2 + N_u^2)}{B \cdot (A^2 - A \cdot N_u + N_u^2)} = 2.180606$$

$$Num := \frac{N_u \cdot (A^2 + N_u^2)}{\sqrt{[N_u \cdot (A^2 + N_u^2)]^2}}$$

$$Den := \frac{B \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{[B \cdot (A^2 - A \cdot N_u + N_u^2)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2} \cdot (A^2 + N_u^2)}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 - A \cdot N_u + N_u^2)} = 0$$



For 2 variables there are 4 subsets.

$$\begin{matrix} 0, 0: & \frac{N_u \cdot \left(N_u^2 + 1\right) \cdot \sqrt{\left(N_u^2 - N_u + 1\right)^2}}{\sqrt{N_u^2 \cdot \left(N_u^2 + 1\right)^2} \cdot \left(N_u^2 - N_u + 1\right)} \end{matrix}$$

$$\begin{matrix} 1, 0: & \frac{N_u \cdot \left(A^2 + N_u^2\right) \cdot \sqrt{\left(A^2 - A \cdot N_u + N_u^2\right)^2}}{\sqrt{N_u^2 \cdot \left(A^2 + N_u^2\right)^2} \cdot \left(A^2 - A \cdot N_u + N_u^2\right)} \end{matrix}$$

$$\begin{matrix} 0, 2: & \frac{N_u \cdot \sqrt{B^2 \cdot \left(N_u^2 - N_u + 1\right)^2} \cdot \left(N_u^2 + 1\right)}{B \cdot \sqrt{N_u^2 \cdot \left(N_u^2 + 1\right)^2} \cdot \left(N_u^2 - N_u + 1\right)} \end{matrix}$$

$$\begin{matrix} 1, 2: & \frac{N_u \cdot \sqrt{B^2 \cdot \left(A^2 - A \cdot N_u + N_u^2\right)^2} \cdot \left(A^2 + N_u^2\right)}{B \cdot \sqrt{N_u^2 \cdot \left(A^2 + N_u^2\right)^2} \cdot \left(A^2 - A \cdot N_u + N_u^2\right)} \end{matrix}$$



Descriptions.

$$\frac{A^2+N_u^2}{A\cdot B}=3.83352$$

$$\text{Num}:=\frac{A^2+N_u^2}{\sqrt{\left(A^2+N_u^2\right)^2}}$$

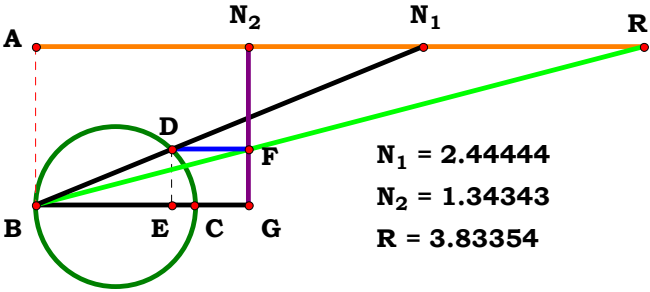
$$\text{Den}:=\frac{A\cdot B}{\sqrt{\left(A\cdot B\right)^2}}$$

$$L:=\frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num}=1\qquad \text{Den}=1\qquad L=1$$

$$L-\frac{\sqrt{A^2\cdot B^2}\cdot\left(A^2+N_u^2\right)}{A\cdot B\cdot\sqrt{\left(A^2+N_u^2\right)^2}}=0$$



$$\text{Unit.}\quad AB:=1\quad \text{Given.}\quad N_1:=2.44444\quad N_2:=1.34343$$

$$N_u:=3\quad A:=\frac{N_u}{N_1}\quad B:=\frac{N_u}{N_2}$$



For 2 variables there are 4 subsets.

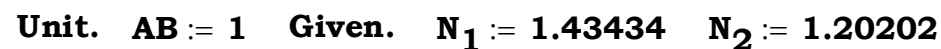
0, 0:
$$\frac{\mathbf{N_u}^2 + 1}{\sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$$

1, 0:
$$\frac{\sqrt{\mathbf{A}^2} \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2\right)}{\mathbf{A} \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2}}$$

0, 2:
$$\frac{\sqrt{\mathbf{B}^2} \cdot \left(\mathbf{N_u}^2 + 1\right)}{\mathbf{B} \cdot \sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2} \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2\right)}{\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2}}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\mathbf{Num} := \frac{\mathbf{N_u}^2 \cdot (\mathbf{A}^3 + \mathbf{B} \cdot \mathbf{A}^2 + \mathbf{A} \cdot \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{A} \cdot \mathbf{N_u} + \mathbf{B} \cdot \mathbf{N_u}^2)}{\sqrt{[\mathbf{N_u}^2 \cdot (\mathbf{A}^3 + \mathbf{B} \cdot \mathbf{A}^2 + \mathbf{A} \cdot \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{A} \cdot \mathbf{N_u} + \mathbf{B} \cdot \mathbf{N_u}^2)]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_u^2 \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N}_u^3 \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)} \cdot [\mathbf{A}^3 + (\mathbf{B} - \mathbf{N}_u) \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_u + \mathbf{N}_u^2)] \cdot (\mathbf{A}^3 + \mathbf{B} \cdot \mathbf{A}^2 + \mathbf{A} \cdot \mathbf{N}_u^2 - \mathbf{B} \cdot \mathbf{A} \cdot \mathbf{N}_u + \mathbf{B} \cdot \mathbf{N}_u^2)}{\mathbf{B} \cdot \sqrt{\mathbf{N}_u^4 \cdot (\mathbf{A}^3 + \mathbf{B} \cdot \mathbf{A}^2 + \mathbf{A} \cdot \mathbf{N}_u^2 - \mathbf{B} \cdot \mathbf{A} \cdot \mathbf{N}_u + \mathbf{B} \cdot \mathbf{N}_u^2)^2} \cdot \sqrt{\mathbf{N}_u^3 \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)} \cdot [\mathbf{A}^3 + (\mathbf{B} - \mathbf{N}_u) \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_u + \mathbf{N}_u^2)]} = 0$$



For 2 variables there are 4 subsets.

0, 0:
$$\frac{N_u^2 \cdot (2 \cdot N_u^2 - N_u + 2)}{\sqrt{N_u^4 \cdot (2 \cdot N_u^2 - N_u + 2)^2}}$$

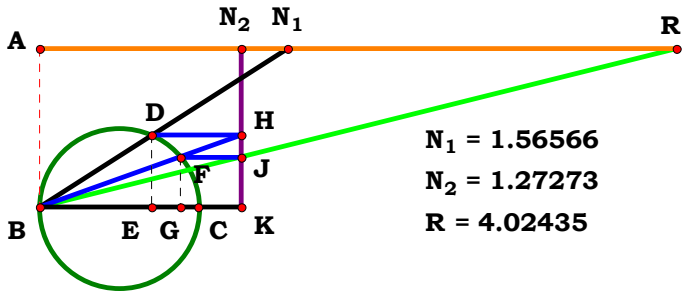
1, 0:
$$\frac{N_u^2 \cdot (A^3 + A^2 + A \cdot N_u^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^4 \cdot (A^3 + A^2 + A \cdot N_u^2 - A \cdot N_u + N_u^2)^2}}$$

0, 2:
$$\frac{N_u^2 \cdot \sqrt{B^2 \cdot N_u^3 \cdot (N_u^2 + 1)} \cdot \left[(B - N_u) \cdot (N_u^2 - N_u + 1) + 1 \right] \cdot (B + N_u^2 - B \cdot N_u + B \cdot N_u^2 + 1)}{B \cdot \sqrt{N_u^4 \cdot (B + N_u^2 - B \cdot N_u + B \cdot N_u^2 + 1)^2} \cdot \sqrt{N_u^3 \cdot (N_u^2 + 1)} \cdot \left[(B - N_u) \cdot (N_u^2 - N_u + 1) + 1 \right]}$$

1, 2:
$$\frac{N_u^2 \cdot \sqrt{B^2 \cdot N_u^3 \cdot (A^2 + N_u^2)} \cdot \left[A^3 + (B - N_u) \cdot (A^2 - A \cdot N_u + N_u^2) \right] \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)}{B \cdot \sqrt{N_u^4 \cdot (A^3 + B \cdot A^2 + A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2)^2} \cdot \sqrt{N_u^3 \cdot (A^2 + N_u^2)} \cdot \left[A^3 + (B - N_u) \cdot (A^2 - A \cdot N_u + N_u^2) \right]}$$



30BT02R10



$N_1 = 1.56566$
 $N_2 = 1.27273$
 $R = 4.02435$

Unit. $AB := 1$ Given. $N_1 := 1.56566$ $N_2 := 1.27273$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u^3 \cdot (2 \cdot A^2 + N_u^2) + N_u \cdot A^2 \cdot (A^2 + B^2)}{A \cdot B^2 \cdot (A^2 + N_u^2)} = 4.024372$$

$$\text{Num} := \frac{N_u^3 \cdot (2 \cdot A^2 + N_u^2) + N_u \cdot A^2 \cdot (A^2 + B^2)}{\sqrt{\left[N_u^3 \cdot (2 \cdot A^2 + N_u^2) + N_u \cdot A^2 \cdot (A^2 + B^2) \right]^2}}$$

$$\text{Den} := \frac{A \cdot B^2 \cdot (A^2 + N_u^2)}{\sqrt{\left[A \cdot B^2 \cdot (A^2 + N_u^2) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot (A^4 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 + N_u^4) \cdot \sqrt{A^2 \cdot B^4 \cdot (A^2 + N_u^2)^2}}{A \cdot B^2 \cdot \sqrt{\left[N_u^3 \cdot (2 \cdot A^2 + N_u^2) + A^2 \cdot N_u \cdot (A^2 + B^2) \right]^2} \cdot (A^2 + N_u^2)} = 0$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u \cdot \sqrt{\left(N_u^2 + 1\right)^2} \cdot \left(N_u^4 + 2 \cdot N_u^2 + 2\right)}{\sqrt{\left[2 \cdot N_u + N_u^3 \cdot \left(N_u^2 + 2\right)\right]^2} \cdot \left(N_u^2 + 1\right)}$$

1, 0:

$$\frac{N_u \cdot \sqrt{A^2 \cdot \left(A^2 + N_u^2\right)^2} \cdot \left(A^4 + 2 \cdot A^2 \cdot N_u^2 + A^2 + N_u^4\right)}{A \cdot \left(A^2 + N_u^2\right) \cdot \sqrt{\left[N_u^3 \cdot \left(2 \cdot A^2 + N_u^2\right) + A^2 \cdot N_u \cdot \left(A^2 + 1\right)\right]^2}}$$

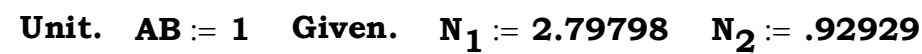
0, 2:

$$\frac{N_u \cdot \sqrt{B^4 \cdot \left(N_u^2 + 1\right)^2} \cdot \left(B^2 + N_u^4 + 2 \cdot N_u^2 + 1\right)}{B^2 \cdot \left(N_u^2 + 1\right) \cdot \sqrt{\left[N_u \cdot \left(B^2 + 1\right) + N_u^3 \cdot \left(N_u^2 + 2\right)\right]^2}}$$

1, 2:

$$\frac{N_u \cdot \left(A^4 + A^2 \cdot B^2 + 2 \cdot A^2 \cdot N_u^2 + N_u^4\right) \cdot \sqrt{A^2 \cdot B^4 \cdot \left(A^2 + N_u^2\right)^2}}{A \cdot B^2 \cdot \sqrt{\left[N_u^3 \cdot \left(2 \cdot A^2 + N_u^2\right) + A^2 \cdot N_u \cdot \left(A^2 + B^2\right)\right]^2} \cdot \left(A^2 + N_u^2\right)}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Definitions.

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2) + \sqrt{\mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{A}^2 \cdot (\mathbf{B} - \mathbf{N}_{\mathbf{u}}) + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_{\mathbf{u}}) \right] \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)} \right]^2} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2} \cdot \left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{A}^2 \cdot (\mathbf{B} - \mathbf{N}_{\mathbf{u}}) + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_{\mathbf{u}}) \right] \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)} + \mathbf{A}^2 \cdot \mathbf{B} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \right]} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u \cdot \sqrt{\left[N_u^2 - N_u + \sqrt{-N_u \cdot \left[N_u + N_u^2 \cdot (N_u - 2) - 1 \right] \cdot (N_u^2 - N_u + 1)} + 1 \right]^2 \cdot (N_u^2 - N_u + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2 \cdot \left[N_u^2 - N_u + \sqrt{-N_u \cdot \left[N_u + N_u^2 \cdot (N_u - 2) - 1 \right] \cdot (N_u^2 - N_u + 1)} + 1 \right]}}$$

1, 0:

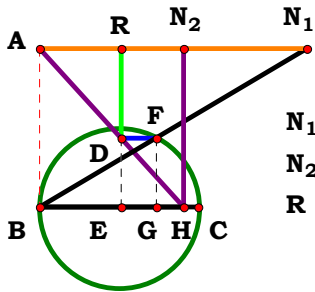
$$\frac{N_u \cdot \sqrt{\left[A^2 + N_u^2 - A \cdot N_u + \sqrt{N_u \cdot \left[N_u^2 \cdot (A - N_u + 1) - A^2 \cdot (N_u - 1) \right] \cdot (A^2 - A \cdot N_u + N_u^2)} \right]^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2 \cdot \left[A^2 + N_u^2 - A \cdot N_u + \sqrt{N_u \cdot \left[N_u^2 \cdot (A - N_u + 1) - A^2 \cdot (N_u - 1) \right] \cdot (A^2 - A \cdot N_u + N_u^2)} \right]}}$$

0, 2:

$$\frac{N_u \cdot \sqrt{\left[B \cdot (N_u^2 - N_u + 1) + \sqrt{N_u \cdot (N_u^2 - N_u + 1) \cdot \left[B - N_u + N_u^2 \cdot (B - N_u + 1) \right]} \right]^2 \cdot (N_u^2 - N_u + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2 \cdot \left[B - B \cdot N_u + \sqrt{N_u \cdot (N_u^2 - N_u + 1) \cdot \left[B - N_u + N_u^2 \cdot (B - N_u + 1) \right]} + B \cdot N_u^2 \right]}}$$

1, 2:

$$\frac{N_u \cdot \sqrt{\left[B \cdot (A^2 - A \cdot N_u + N_u^2) + \sqrt{N_u \cdot \left[A^2 \cdot (B - N_u) + N_u^2 \cdot (A + B - N_u) \right] \cdot (A^2 - A \cdot N_u + N_u^2)} \right]^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2 \cdot \left[\sqrt{N_u \cdot \left[A^2 \cdot (B - N_u) + N_u^2 \cdot (A + B - N_u) \right] \cdot (A^2 - A \cdot N_u + N_u^2)} + A^2 \cdot B + B \cdot N_u^2 - A \cdot B \cdot N_u \right]}}$$



Unit. $AB := 1$ Given. $N_1 := 1.68687$ $N_2 := .90909$

$N_1 = 1.68687$
 $N_2 = 0.90909$
 $R = 0.51031$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2}$$

Descriptions.

$$\frac{N_u \cdot \left(A^2 - A \cdot N_u + N_u^2\right)}{B \cdot \left(A^2 + N_u^2\right)} = 0.510311 \qquad \text{Num} := \frac{N_u \cdot \left(A^2 - A \cdot N_u + N_u^2\right)}{\sqrt{\left[N_u \cdot \left(A^2 - A \cdot N_u + N_u^2\right)\right]^2}} \qquad \text{Den} := \frac{B \cdot \left(A^2 + N_u^2\right)}{\sqrt{\left[B \cdot \left(A^2 + N_u^2\right)\right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot \left(A^2 + N_u^2\right)^2} \cdot \left(A^2 - A \cdot N_u + N_u^2\right)}{B \cdot \sqrt{N_u^2 \cdot \left(A^2 - A \cdot N_u + N_u^2\right)^2} \cdot \left(A^2 + N_u^2\right)} = 0$$



For 2 variables there are 4 subsets.

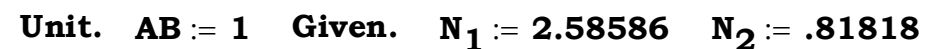
0, 0:
$$\frac{N_u \cdot \sqrt{\left(N_u^2 + 1\right)^2 \cdot \left(N_u^2 - N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - N_u + 1\right)^2 \cdot \left(N_u^2 + 1\right)}}$$

1, 0:
$$\frac{N_u \cdot \sqrt{\left(A^2 + N_u^2\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2\right)}}{\sqrt{N_u^2 \cdot \left(A^2 - A \cdot N_u + N_u^2\right)^2 \cdot \left(A^2 + N_u^2\right)}}$$

0, 2:
$$\frac{N_u \cdot \sqrt{B^2 \cdot \left(N_u^2 + 1\right)^2 \cdot \left(N_u^2 - N_u + 1\right)}}{B \cdot \sqrt{N_u^2 \cdot \left(N_u^2 - N_u + 1\right)^2 \cdot \left(N_u^2 + 1\right)}}$$

1, 2:
$$\frac{N_u \cdot \sqrt{B^2 \cdot \left(A^2 + N_u^2\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2\right)}}{B \cdot \sqrt{N_u^2 \cdot \left(A^2 - A \cdot N_u + N_u^2\right)^2 \cdot \left(A^2 + N_u^2\right)}}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\mathbf{Num} := \frac{\left(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2\right)^2}{\sqrt{\left[\left(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2\right)^2\right]^2}}$$

$$\text{Den} := \frac{\mathbf{A}^2 \cdot \mathbf{B}^2 + \mathbf{N}_{\mathbf{u}}^4 + \mathbf{A} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}}) \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + 2 \cdot \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\left[\mathbf{A}^2 \cdot \mathbf{B}^2 + \mathbf{N}_{\mathbf{u}}^4 + \mathbf{A} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}}) \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + 2 \cdot \mathbf{N}_{\mathbf{u}}^2) \right]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\left[\mathbf{N}_{\mathbf{u}}^4 + \mathbf{A}^2 \cdot \mathbf{B}^2 + \mathbf{A} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}}) \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + 2 \cdot \mathbf{N}_{\mathbf{u}}^2)\right]^2 \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2}}{\sqrt{(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^4 \cdot (\mathbf{A}^4 - 2 \cdot \mathbf{A}^3 \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A}^2 \cdot \mathbf{B}^2 + 3 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^3 + \mathbf{N}_{\mathbf{u}}^4)}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{\sqrt{\left[N_u^4 - (N_u - 1) \cdot (2 \cdot N_u^2 - N_u + 1) + 1\right]^2 \cdot (N_u^2 - N_u + 1)^2}}{\sqrt{\left(N_u^2 - N_u + 1\right)^4 \cdot (N_u^4 - 2 \cdot N_u^3 + 3 \cdot N_u^2 - 2 \cdot N_u + 2)}}$$

1, 0:

$$\frac{\sqrt{\left[A^2 + N_u^4 + A \cdot (A - N_u) \cdot (A^2 - A \cdot N_u + 2 \cdot N_u^2)\right]^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}{\sqrt{\left(A^2 - A \cdot N_u + N_u^2\right)^4 \cdot (A^4 - 2 \cdot A^3 \cdot N_u + 3 \cdot A^2 \cdot N_u^2 + A^2 - 2 \cdot A \cdot N_u^3 + N_u^4)}}$$

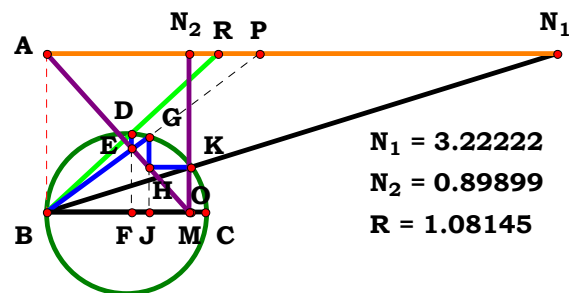
0, 2:

$$\frac{\sqrt{\left[B^2 - (N_u - 1) \cdot (2 \cdot N_u^2 - N_u + 1) + N_u^4\right]^2 \cdot (N_u^2 - N_u + 1)^2}}{\sqrt{\left(N_u^2 - N_u + 1\right)^4 \cdot (B^2 + N_u^4 - 2 \cdot N_u^3 + 3 \cdot N_u^2 - 2 \cdot N_u + 1)}}$$

1, 2:

$$\frac{\sqrt{\left[N_u^4 + A^2 \cdot B^2 + A \cdot (A - N_u) \cdot (A^2 - A \cdot N_u + 2 \cdot N_u^2)\right]^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}{\sqrt{\left(A^2 - A \cdot N_u + N_u^2\right)^4 \cdot (A^4 - 2 \cdot A^3 \cdot N_u + A^2 \cdot B^2 + 3 \cdot A^2 \cdot N_u^2 - 2 \cdot A \cdot N_u^3 + N_u^4)}}$$

30BT2R3



Unit. AB := 1 Given. N₁ := 3.22222 N₂ := .89899

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2)} \cdot \left[\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2)} \cdot (B \cdot A^2 - A^2 \cdot N_u + A \cdot N_u^2 - N_u^3 + B \cdot N_u^2) + (A^2 - A \cdot N_u + N_u^2) \cdot (B - N_u) \right]} = 1.081448$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\text{Den} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)} \cdot \left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)} \cdot (\mathbf{B} \cdot \mathbf{A}^2 - \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{N}_{\mathbf{u}}^3 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2) + (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{B} - \mathbf{N}_{\mathbf{u}}) \right]}{\sqrt{\left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)} \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)} \cdot (\mathbf{B} \cdot \mathbf{A}^2 - \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{N}_{\mathbf{u}}^3 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2) + (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{B} - \mathbf{N}_{\mathbf{u}}) \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2}} = \mathbf{0}$$



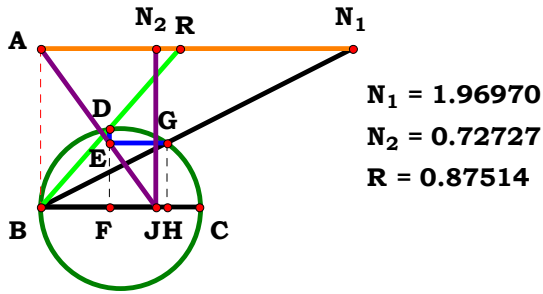
For 2 variables there are 4 subsets.

0, 0:
$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 0:
$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}$$

0, 2:
$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 2:
$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}$$



$N_1 = 1.96970$
 $N_2 = 0.72727$
 $R = 0.87514$

Unit. $AB := 1$ Given. $N_1 := 1.96970$ $N_2 := .72727$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2) \cdot [(A + B) \cdot N_u^2 - N_u^3 + (A^2 \cdot B - A^2 \cdot N_u)]}} = 0.875141$$

$$Num := \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{[N_u \cdot (A^2 - A \cdot N_u + N_u^2)]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2) \cdot [(A + B) \cdot N_u^2 - N_u^3 + (A^2 \cdot B - A^2 \cdot N_u)]}}{\sqrt{[\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2) \cdot [(A + B) \cdot N_u^2 - N_u^3 + (A^2 \cdot B - A^2 \cdot N_u)]}]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}} = 0$$



For 2 variables there are 4 subsets.

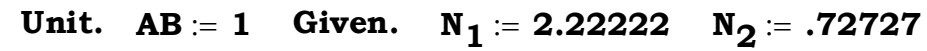
0, 0:
$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 0:
$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}$$

0, 2:
$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 2:
$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}$$

Descriptions.



$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2}$$

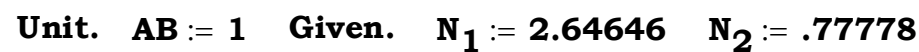
$$\frac{\mathbf{N_u}}{\sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N_u})}} = \mathbf{1.10096}$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{N}_{\mathbf{u}})^2}} \quad \mathbf{Den} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_{\mathbf{u}})}}{\sqrt{[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_{\mathbf{u}})}]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_u}{\sqrt{\mathbf{N}_u^2}} = \mathbf{0}$$



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\mathbf{Den} := \frac{\mathbf{A} \cdot \mathbf{B}}{\sqrt{(\mathbf{A} \cdot \mathbf{B})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u^2 - N_u + 1}{\sqrt{(N_u^2 - N_u + 1)^2}}$$

1, 0:

$$\frac{\sqrt{A^2} \cdot (A^2 - A \cdot N_u + N_u^2)}{A \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2)^2}}$$

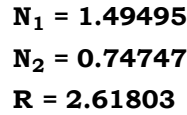
0, 2:

$$\frac{\sqrt{B^2} \cdot (N_u^2 - N_u + 1)}{B \cdot \sqrt{(N_u^2 - N_u + 1)^2}}$$

1, 2:

$$\frac{\sqrt{A^2 \cdot B^2} \cdot (A^2 - A \cdot N_u + N_u^2)}{A \cdot B \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2)^2}}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Definitions.

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2} \cdot (\mathbf{A} + \mathbf{B} + \sqrt{2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{A}^2 + \mathbf{B}^2})}{\mathbf{A} \cdot \sqrt{(\mathbf{A} + \mathbf{B} + \sqrt{2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{A}^2 + \mathbf{B}^2})^2}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0: 1

1, 0:
$$\frac{\sqrt{\mathbf{A}^2} \cdot \left(\mathbf{A} + \sqrt{2 \cdot \mathbf{A} - 3 \cdot \mathbf{A}^2 + 1 + 1}\right)}{\mathbf{A} \cdot \sqrt{\left(\mathbf{A} + \sqrt{2 \cdot \mathbf{A} - 3 \cdot \mathbf{A}^2 + 1 + 1}\right)^2}}$$

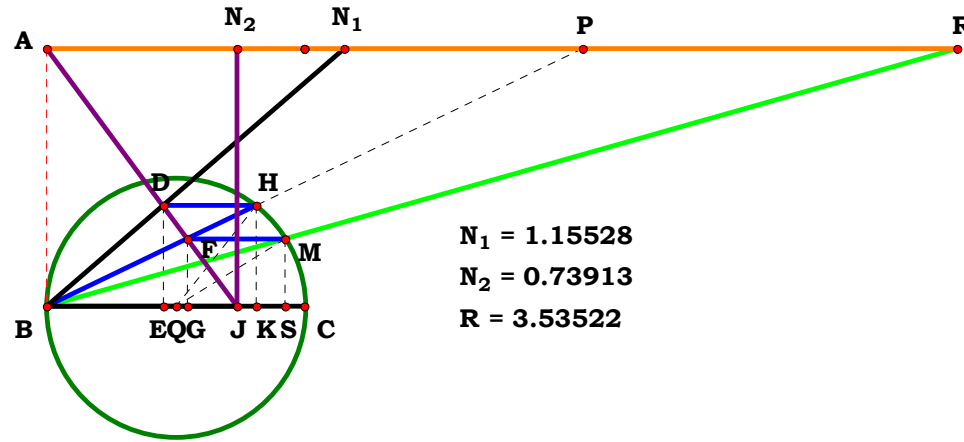
0, 2:
$$\frac{\mathbf{B} + \sqrt{\mathbf{B}^2 + 2 \cdot \mathbf{B} - 3 + 1}}{\sqrt{\left(\mathbf{B} + \sqrt{\mathbf{B}^2 + 2 \cdot \mathbf{B} - 3 + 1}\right)^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{A}^2} \cdot \left(\mathbf{A} + \mathbf{B} + \sqrt{2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{A}^2 + \mathbf{B}^2}\right)}{\mathbf{A} \cdot \sqrt{\left(\mathbf{A} + \mathbf{B} + \sqrt{2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{A}^2 + \mathbf{B}^2}\right)^2}}$$



30BT3R8

Descriptions.



$N_1 = 1.15528$
 $N_2 = 0.73913$
 $R = 3.53522$

Unit. $AB := 1$ Given. $N_1 := 1.15528$ $N_2 := .73913$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

$$\frac{\frac{\sqrt{2}}{4} \cdot \left[\sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + \left[2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B + A \cdot N_u \right) + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) \right] \right] \dots}{+ \sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + \left[2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B - 3 \cdot A \cdot N_u \right) + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) \right] \right]} \right]}{N_u^2 \cdot \sqrt{N_u \cdot (A+B)} \cdot A} = 3.535223$$

$$\text{Num} := \frac{\frac{\sqrt{2}}{4} \cdot \left[\sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + \left[2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B + A \cdot N_u \right) + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) \right] \right] \dots}{+ \sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + \left[2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B - 3 \cdot A \cdot N_u \right) + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) \right] \right]} \right]}{\sqrt{\left[\frac{\sqrt{2}}{4} \cdot \left[\sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + \left[2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B + A \cdot N_u \right) + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) \right] \right] \dots}{+ \sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + \left[2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B - 3 \cdot A \cdot N_u \right) + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) \right] \right]} \right]}^2}}^2$$

$$\text{Den} := \frac{N_u^2 \cdot \sqrt{N_u \cdot (A+B)} \cdot A}{\sqrt{\left[N_u^2 \cdot \sqrt{N_u \cdot (A+B)} \cdot A \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

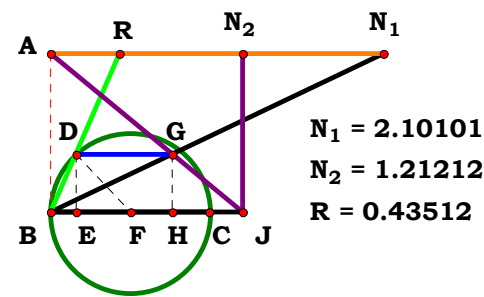
$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{\frac{\sqrt{2}}{4} \cdot \left[\sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) + 2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B + A \cdot N_u \right) \right] \dots}{+ \sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) + 2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B - 3 \cdot A \cdot N_u \right) \right]} \right]}{\sqrt{A^2 \cdot N_u^5 \cdot (A+B)}}}{\frac{A \cdot N_u^2 \cdot \sqrt{\left[\sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) + 2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B + A \cdot N_u \right) \right] \dots}{+ \sqrt{N_u^3 \cdot (A+B)} \cdot \left[\left(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B \right) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + B^2 \cdot \left(2 \cdot A \cdot B - A^2 + B^2 \right) + 2 \cdot A \cdot N_u \cdot \left(B^2 + A \cdot B - 3 \cdot A \cdot N_u \right) \right]} \right]}^2}}{\sqrt{N_u \cdot (A+B)}}} = 0$$

For 2 variables there are 4 subsets.

$$\begin{array}{ll}
 \text{0, 0:} & \frac{\sqrt{2} \cdot \sqrt{N_u^5} \cdot \left[\sqrt{2} \cdot \sqrt{N_u^3} \cdot \left[2 \cdot N_u \cdot (N_u + 2) + 2 \right] + \sqrt{2} \cdot \sqrt{-N_u^3} \cdot \left[2 \cdot N_u \cdot (3 \cdot N_u - 2) - 2 \right] \right]}{4 \cdot N_u^{\frac{5}{2}} \cdot \sqrt{\frac{\left[\sqrt{2} \cdot \sqrt{N_u^3} \cdot \left[2 \cdot N_u \cdot (N_u + 2) + 2 \right] + \sqrt{2} \cdot \sqrt{-N_u^3} \cdot \left[2 \cdot N_u \cdot (3 \cdot N_u - 2) - 2 \right] \right]^2}{8}}} \\
 \\
 \text{1, 0:} & \frac{\sqrt{2} \cdot \left[\sqrt{N_u^3 \cdot (A+1)} \cdot \left[2 \cdot A - A^2 + (A + 2 \cdot A \cdot N_u + 1) \cdot \sqrt{2 \cdot A - 3 \cdot A^2 + 1} + 2 \cdot A \cdot N_u \cdot (A + A \cdot N_u + 1) + 1 \right] \dots \right.}{\left. + \sqrt{N_u^3 \cdot (A+1)} \cdot \left[2 \cdot A - A^2 + (A + 2 \cdot A \cdot N_u + 1) \cdot \sqrt{2 \cdot A - 3 \cdot A^2 + 1} + 2 \cdot A \cdot N_u \cdot (A - 3 \cdot A \cdot N_u + 1) + 1 \right] \right]} \cdot \sqrt{A^2 \cdot N_u^5 \cdot (A+1)} \\
 \\
 & \frac{4 \cdot A \cdot N_u^2 \cdot \sqrt{\frac{\left[\sqrt{N_u^3 \cdot (A+1)} \cdot \left[2 \cdot A - A^2 + (A + 2 \cdot A \cdot N_u + 1) \cdot \sqrt{2 \cdot A - 3 \cdot A^2 + 1} + 2 \cdot A \cdot N_u \cdot (A + A \cdot N_u + 1) + 1 \right] \dots \right.}{\left. + \sqrt{N_u^3 \cdot (A+1)} \cdot \left[2 \cdot A - A^2 + (A + 2 \cdot A \cdot N_u + 1) \cdot \sqrt{2 \cdot A - 3 \cdot A^2 + 1} + 2 \cdot A \cdot N_u \cdot (A - 3 \cdot A \cdot N_u + 1) + 1 \right] \right]}^2}{8}} \cdot \sqrt{N_u \cdot (A+1)} \\
 \\
 \text{0, 2:} & \frac{\sqrt{2} \cdot \sqrt{N_u^5 \cdot (B+1)} \cdot \left[\sqrt{N_u^3 \cdot (B+1)} \cdot \left[\sqrt{B^2 + 2 \cdot B - 3} \cdot (B^3 + B^2 + 2 \cdot N_u \cdot B) + B^2 \cdot (B^2 + 2 \cdot B - 1) + 2 \cdot N_u \cdot (B^2 + B + N_u) \right] \dots \right.}{\left. + \sqrt{N_u^3 \cdot (B+1)} \cdot \left[\sqrt{B^2 + 2 \cdot B - 3} \cdot (B^3 + B^2 + 2 \cdot N_u \cdot B) + 2 \cdot N_u \cdot (B^2 + B - 3 \cdot N_u) + B^2 \cdot (B^2 + 2 \cdot B - 1) \right] \right]} \\
 \\
 & \frac{4 \cdot N_u^2 \cdot \sqrt{\frac{\left[\sqrt{N_u^3 \cdot (B+1)} \cdot \left[\sqrt{B^2 + 2 \cdot B - 3} \cdot (B^3 + B^2 + 2 \cdot N_u \cdot B) + B^2 \cdot (B^2 + 2 \cdot B - 1) + 2 \cdot N_u \cdot (B^2 + B + N_u) \right] \dots \right.}{\left. + \sqrt{N_u^3 \cdot (B+1)} \cdot \left[\sqrt{B^2 + 2 \cdot B - 3} \cdot (B^3 + B^2 + 2 \cdot N_u \cdot B) + 2 \cdot N_u \cdot (B^2 + B - 3 \cdot N_u) + B^2 \cdot (B^2 + 2 \cdot B - 1) \right] \right]}^2}{8}} \cdot \sqrt{N_u \cdot (B+1)} \\
 \\
 \text{1, 2:} & \frac{\frac{\sqrt{2}}{4} \cdot \left[\sqrt{N_u^3 \cdot (A+B)} \cdot \left[(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + B^2 \cdot (2 \cdot A \cdot B - A^2 + B^2) + 2 \cdot A \cdot N_u \cdot (B^2 + A \cdot B + A \cdot N_u) \right] \dots \right.}{\left. + \sqrt{N_u^3 \cdot (A+B)} \cdot \left[(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + B^2 \cdot (2 \cdot A \cdot B - A^2 + B^2) + 2 \cdot A \cdot N_u \cdot (B^2 + A \cdot B - 3 \cdot A \cdot N_u) \right] \right]} \cdot \sqrt{A^2 \cdot N_u^5 \cdot (A+B)} \\
 \\
 & \frac{A \cdot N_u^2 \cdot \sqrt{\frac{\left[\sqrt{N_u^3 \cdot (A+B)} \cdot \left[(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + B^2 \cdot (2 \cdot A \cdot B - A^2 + B^2) + 2 \cdot A \cdot N_u \cdot (B^2 + A \cdot B + A \cdot N_u) \right] \dots \right.}{\left. + \sqrt{N_u^3 \cdot (A+B)} \cdot \left[(B^3 + A \cdot B^2 + 2 \cdot A \cdot N_u \cdot B) \cdot \sqrt{2 \cdot A \cdot B - 3 \cdot A^2 + B^2} + B^2 \cdot (2 \cdot A \cdot B - A^2 + B^2) + 2 \cdot A \cdot N_u \cdot (B^2 + A \cdot B - 3 \cdot A \cdot N_u) \right] \right]}^2}{8}} \cdot \sqrt{N_u \cdot (A+B)}
 \end{array}$$

30BT3R9



Unit. $AB := 1$ **Given.** $N_1 := 2.10101$ $N_2 := 1.21212$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{\mathbf{A} + \mathbf{B} - \sqrt{(\mathbf{B} - \mathbf{A}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}}{2 \cdot \mathbf{A}} = \mathbf{0.43512}$$

$$\mathbf{Num} := \frac{\mathbf{A} + \mathbf{B} - \sqrt{(\mathbf{B} - \mathbf{A}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}}{\sqrt{[\mathbf{A} + \mathbf{B} - \sqrt{(\mathbf{B} - \mathbf{A}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{A}}{\sqrt{(2 \cdot \mathbf{A})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2} \cdot [\mathbf{A} + \mathbf{B} - \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (3 \cdot \mathbf{A} + \mathbf{B})}]}{\mathbf{A} \cdot \sqrt{[\mathbf{A} + \mathbf{B} - \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (3 \cdot \mathbf{A} + \mathbf{B})}]^2}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

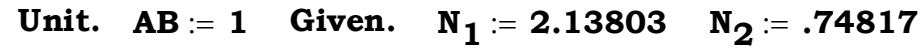
0, 0: 1

1, 0:
$$\frac{\sqrt{\mathbf{A}^2} \cdot [\mathbf{A} - \sqrt{-(\mathbf{A} - 1) \cdot (\mathbf{3} \cdot \mathbf{A} + 1)} + 1]}{\mathbf{A} \cdot \sqrt{[\mathbf{A} - \sqrt{-(\mathbf{A} - 1) \cdot (\mathbf{3} \cdot \mathbf{A} + 1)} + 1]^2}}$$

0, 2:
$$\frac{\mathbf{B} - \sqrt{(\mathbf{B} - 1) \cdot (\mathbf{B} + 3)} + 1}{\sqrt{[\mathbf{B} - \sqrt{(\mathbf{B} - 1) \cdot (\mathbf{B} + 3)} + 1]^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{A}^2} \cdot [\mathbf{A} + \mathbf{B} - \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}]}{\mathbf{A} \cdot \sqrt{[\mathbf{A} + \mathbf{B} - \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}]^2}}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\mathbf{Num} := \frac{\mathbf{A} + \mathbf{B} + \sqrt{(\mathbf{B} - \mathbf{A}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}}{\sqrt{[\mathbf{A} + \mathbf{B} + \sqrt{(\mathbf{B} - \mathbf{A}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{B}}{\sqrt{(2 \cdot \mathbf{B})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2} \cdot [\mathbf{A} + \mathbf{B} + \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (3 \cdot \mathbf{A} + \mathbf{B})}]}{\mathbf{B} \cdot \sqrt{[\mathbf{A} + \mathbf{B} + \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (3 \cdot \mathbf{A} + \mathbf{B})}]^2}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

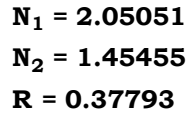
0, 0: 1

1, 0:
$$\frac{\mathbf{A} + \sqrt{-(\mathbf{A} - 1) \cdot (\mathbf{3} \cdot \mathbf{A} + 1)} + 1}{\sqrt{\left[\mathbf{A} + \sqrt{-(\mathbf{A} - 1) \cdot (\mathbf{3} \cdot \mathbf{A} + 1)} + 1\right]^2}}$$

0, 2:
$$\frac{\sqrt{\mathbf{B}^2} \cdot \left[\mathbf{B} + \sqrt{(\mathbf{B} - 1) \cdot (\mathbf{B} + 3)} + 1\right]}{\mathbf{B} \cdot \sqrt{\left[\mathbf{B} + \sqrt{(\mathbf{B} - 1) \cdot (\mathbf{B} + 3)} + 1\right]^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{B}^2} \cdot \left[\mathbf{A} + \mathbf{B} + \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}\right]}{\mathbf{B} \cdot \sqrt{\left[\mathbf{A} + \mathbf{B} + \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}\right]^2}}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Definitions.

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2} \cdot [\mathbf{A} + \mathbf{B} - \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (3 \cdot \mathbf{A} + \mathbf{B})}]}{\mathbf{B} \cdot \sqrt{[\mathbf{A} + \mathbf{B} - \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (3 \cdot \mathbf{A} + \mathbf{B})}]^2}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

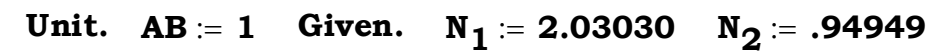
0, 0: 1

1, 0:
$$\frac{\mathbf{A} - \sqrt{-(\mathbf{A} - 1) \cdot (\mathbf{3} \cdot \mathbf{A} + 1)} + 1}{\sqrt{\left[\mathbf{A} - \sqrt{-(\mathbf{A} - 1) \cdot (\mathbf{3} \cdot \mathbf{A} + 1)} + 1\right]^2}}$$

0, 2:
$$\frac{\sqrt{\mathbf{B}^2} \cdot \left[\mathbf{B} - \sqrt{(\mathbf{B} - 1) \cdot (\mathbf{B} + 3)} + 1\right]}{\mathbf{B} \cdot \sqrt{\left[\mathbf{B} - \sqrt{(\mathbf{B} - 1) \cdot (\mathbf{B} + 3)} + 1\right]^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{B}^2} \cdot \left[\mathbf{A} + \mathbf{B} - \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}\right]}{\mathbf{B} \cdot \sqrt{\left[\mathbf{A} + \mathbf{B} - \sqrt{-(\mathbf{A} - \mathbf{B}) \cdot (\mathbf{3} \cdot \mathbf{A} + \mathbf{B})}\right]^2}}$$

Descriptions.



$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\frac{N_u^2}{A^2 + N_u^2 - B \cdot N_u} = 5.279922$$

$$\mathbf{Num} := \frac{\mathbf{N_u}^2}{\sqrt{(\mathbf{N_u}^2)^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A}^2 + \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{N_u}}{\sqrt{(\mathbf{A}^2 + \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{N_u})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}}^2 \cdot \sqrt{(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2}}{\sqrt{\mathbf{N}_{\mathbf{u}}^4 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}} = \mathbf{0}$$



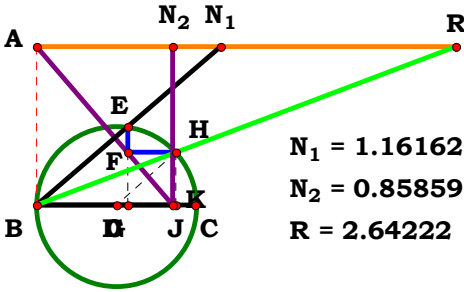
For 2 variables there are 4 subsets.

0, 0:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - N_u + 1)^2}}{\sqrt{N_u^4} \cdot (N_u^2 - N_u + 1)}$$

1, 0:
$$\frac{N_u^2 \cdot \sqrt{(A^2 + N_u^2 - N_u)^2}}{\sqrt{N_u^4} \cdot (A^2 + N_u^2 - N_u)}$$

0, 2:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - B \cdot N_u + 1)^2}}{\sqrt{N_u^4} \cdot (N_u^2 - B \cdot N_u + 1)}$$

1, 2:
$$\frac{N_u^2 \cdot \sqrt{(A^2 + N_u^2 - B \cdot N_u)^2}}{\sqrt{N_u^4} \cdot (A^2 + N_u^2 - B \cdot N_u)}$$



Unit. $AB := 1$ Given. $N_1 := 1.16162$ $N_2 := .85859$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2}$$

$N_1 = 1.16162$
 $N_2 = 0.85859$
 $R = 2.64222$

Descriptions.

$$\frac{\sqrt{\left(3 \cdot A^2 + 3 \cdot N_u^2 - 2 \cdot B \cdot N_u\right) \cdot \left(2 \cdot B \cdot N_u - N_u^2 - A^2\right)} + A^2 + N_u^2}{2 \cdot \left(A^2 + N_u^2 - B \cdot N_u\right)} = 2.642205$$

$$\text{Num} := \frac{\sqrt{\left(3 \cdot A^2 + 3 \cdot N_u^2 - 2 \cdot B \cdot N_u\right) \cdot \left(2 \cdot B \cdot N_u - N_u^2 - A^2\right)} + A^2 + N_u^2}{\sqrt{\left[\sqrt{\left(3 \cdot A^2 + 3 \cdot N_u^2 - 2 \cdot B \cdot N_u\right) \cdot \left(2 \cdot B \cdot N_u - N_u^2 - A^2\right)} + A^2 + N_u^2\right]^2}}$$

$$\text{Den} := \frac{2 \cdot \left(A^2 + N_u^2 - B \cdot N_u\right)}{\sqrt{\left[2 \cdot \left(A^2 + N_u^2 - B \cdot N_u\right)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\sqrt{\left(2 \cdot A^2 + 2 \cdot N_u^2 - 2 \cdot B \cdot N_u\right)^2} \cdot \left[\sqrt{-\left(3 \cdot A^2 + 3 \cdot N_u^2 - 2 \cdot B \cdot N_u\right) \cdot \left(A^2 + N_u^2 - 2 \cdot B \cdot N_u\right)} + A^2 + N_u^2\right]}{2 \cdot \sqrt{\left[\sqrt{-\left(3 \cdot A^2 + 3 \cdot N_u^2 - 2 \cdot B \cdot N_u\right) \cdot \left(A^2 + N_u^2 - 2 \cdot B \cdot N_u\right)} + A^2 + N_u^2\right]^2} \cdot \left(A^2 + N_u^2 - B \cdot N_u\right)} = 0$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{\sqrt{\left(2 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{N_u} + 2\right)^2} \cdot \left[\mathbf{N_u}^2 + \sqrt{-\left(\mathbf{N_u}^2 - 2 \cdot \mathbf{N_u} + 1\right) \cdot \left(3 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{N_u} + 3\right)} + 1\right]}{2 \cdot \sqrt{\left[\mathbf{N_u}^2 + \sqrt{-\left(\mathbf{N_u}^2 - 2 \cdot \mathbf{N_u} + 1\right) \cdot \left(3 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{N_u} + 3\right)} + 1\right]^2} \cdot \left(\mathbf{N_u}^2 - \mathbf{N_u} + 1\right)}$$

1, 0:

$$\frac{\sqrt{\left(2 \cdot \mathbf{A}^2 + 2 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{N_u}\right)^2} \cdot \left[\mathbf{A}^2 + \mathbf{N_u}^2 + \sqrt{-\left(3 \cdot \mathbf{A}^2 + 3 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{N_u}\right) \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2 - 2 \cdot \mathbf{N_u}\right)}\right]}{2 \cdot \sqrt{\left[\mathbf{A}^2 + \mathbf{N_u}^2 + \sqrt{-\left(3 \cdot \mathbf{A}^2 + 3 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{N_u}\right) \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2 - 2 \cdot \mathbf{N_u}\right)}\right]^2} \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2 - \mathbf{N_u}\right)}$$

0, 2:

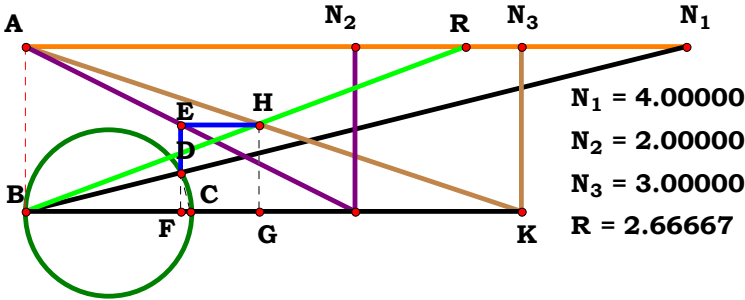
$$\frac{\sqrt{\left(2 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u} + 2\right)^2} \cdot \left[\sqrt{-\left(3 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u} + 3\right) \cdot \left(\mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u} + 1\right)} + \mathbf{N_u}^2 + 1\right]}{2 \cdot \sqrt{\left[\sqrt{-\left(3 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u} + 3\right) \cdot \left(\mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u} + 1\right)} + \mathbf{N_u}^2 + 1\right]^2} \cdot \left(\mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{N_u} + 1\right)}$$

1, 2:

$$\frac{\sqrt{\left(2 \cdot \mathbf{A}^2 + 2 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u}\right)^2} \cdot \left[\sqrt{-\left(3 \cdot \mathbf{A}^2 + 3 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u}\right) \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u}\right)} + \mathbf{A}^2 + \mathbf{N_u}^2\right]}{2 \cdot \sqrt{\left[\sqrt{-\left(3 \cdot \mathbf{A}^2 + 3 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u}\right) \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N_u}\right)} + \mathbf{A}^2 + \mathbf{N_u}^2\right]^2} \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{N_u}\right)}$$



Descriptions.



Unit. **AB** := 1 Given. **N₁** := 4 **N₂** := 2 **N₃** := 3

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$

$$\frac{B \cdot N_u^2}{C \cdot (A^2 + N_u^2 - B \cdot N_u)} = 2.666667$$

$$\text{Num} := \frac{B \cdot N_u^2}{\sqrt{(B \cdot N_u^2)^2}}$$

$$\text{Den} := \frac{C \cdot (A^2 + N_u^2 - B \cdot N_u)}{\sqrt{[C \cdot (A^2 + N_u^2 - B \cdot N_u)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$L - \frac{B \cdot N_u^2 \cdot \sqrt{C^2 \cdot (A^2 + N_u^2 - B \cdot N_u)^2}}{C \cdot \sqrt{B^2 \cdot N_u^4 \cdot (A^2 + N_u^2 - B \cdot N_u)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - N_u + 1)}}$$

1, 0, 0:
$$\frac{N_u^2 \cdot \sqrt{(A^2 + N_u^2 - N_u)^2}}{\sqrt{N_u^4 \cdot (A^2 + N_u^2 - N_u)}}$$

0, 2, 0:
$$\frac{B \cdot N_u^2 \cdot \sqrt{(N_u^2 - B \cdot N_u + 1)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (N_u^2 - B \cdot N_u + 1)}}$$

1, 2, 0:
$$\frac{B \cdot N_u^2 \cdot \sqrt{(A^2 + N_u^2 - B \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (A^2 + N_u^2 - B \cdot N_u)}}$$

0, 0, 3:
$$\frac{N_u^2 \cdot \sqrt{C^2 \cdot (N_u^2 - N_u + 1)^2}}{C \cdot \sqrt{N_u^4 \cdot (N_u^2 - N_u + 1)}}$$

1, 0, 3:
$$\frac{N_u^2 \cdot \sqrt{C^2 \cdot (A^2 + N_u^2 - N_u)^2}}{C \cdot \sqrt{N_u^4 \cdot (A^2 + N_u^2 - N_u)}}$$

0, 2, 3:
$$\frac{B \cdot N_u^2 \cdot \sqrt{C^2 \cdot (N_u^2 - B \cdot N_u + 1)^2}}{C \cdot \sqrt{B^2 \cdot N_u^4 \cdot (N_u^2 - B \cdot N_u + 1)}}$$

1, 2, 3:
$$\frac{B \cdot N_u^2 \cdot \sqrt{C^2 \cdot (A^2 + N_u^2 - B \cdot N_u)^2}}{C \cdot \sqrt{B^2 \cdot N_u^4 \cdot (A^2 + N_u^2 - B \cdot N_u)}}$$



30BT4R0

Descriptions.

$$\frac{A \cdot N_u^2}{B \cdot (A^2 + N_u^2)} = 0.604276$$

$$\mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_u^2}{\sqrt{(\mathbf{A} \cdot \mathbf{N}_u^2)^2}}$$

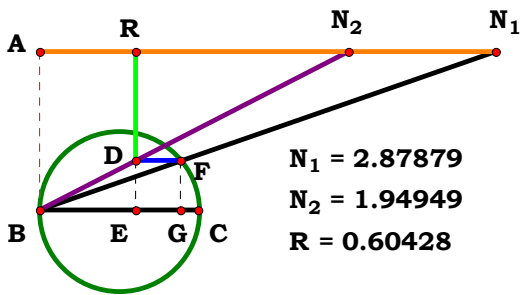
$$\text{Den} := \frac{\mathbf{B} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\sqrt{[\mathbf{B} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_u^2 \cdot \sqrt{\mathbf{B}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)^2}}{\mathbf{B} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_u^4 \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}} = \mathbf{0}$$



Unit. AB := 1 Given. $N_1 := 2.87879$ $N_2 := 1.94949$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u^2 \cdot \sqrt{\left(N_u^2 + 1\right)^2}}{\sqrt{N_u^4 \cdot \left(N_u^2 + 1\right)}}$$

1, 0:

$$\frac{A \cdot N_u^2 \cdot \sqrt{\left(A^2 + N_u^2\right)^2}}{\sqrt{A^2 \cdot N_u^4 \cdot \left(A^2 + N_u^2\right)}}$$

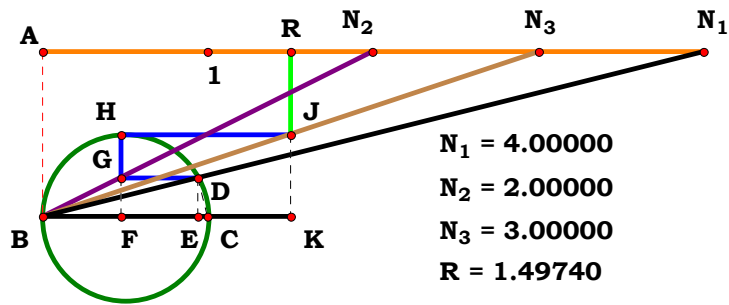
0, 2:

$$\frac{N_u^2 \cdot \sqrt{B^2 \cdot \left(N_u^2 + 1\right)^2}}{B \cdot \sqrt{N_u^4 \cdot \left(N_u^2 + 1\right)}}$$

1, 2:

$$\frac{A \cdot N_u^2 \cdot \sqrt{B^2 \cdot \left(A^2 + N_u^2\right)^2}}{B \cdot \sqrt{A^2 \cdot N_u^4 \cdot \left(A^2 + N_u^2\right)}}$$

30BT4R1



$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{L} - \frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot \sqrt{\mathbf{B} \cdot \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}}{\mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^4 \cdot (\mathbf{B} \cdot \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u^2 \cdot \sqrt{(N_u^2 + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 + 1)}}$$

1, 0, 0:

$$\frac{\sqrt{A \cdot N_u^2} \cdot \sqrt{(A^2 + N_u^2)^2} \cdot \sqrt{A^2 - A \cdot N_u^2 + N_u^2}}{(A^2 + N_u^2) \cdot \sqrt{A \cdot N_u^4 \cdot (A^2 - A \cdot N_u^2 + N_u^2)}}$$

0, 2, 0:

$$\frac{N_u^2 \cdot \sqrt{B^2 \cdot (N_u^2 + 1)^2} \cdot \sqrt{B - N_u^2 + B \cdot N_u^2}}{B \cdot \sqrt{N_u^4 \cdot (B - N_u^2 + B \cdot N_u^2)} \cdot (N_u^2 + 1)}$$

1, 2, 0:

$$\frac{\sqrt{A \cdot N_u^2} \cdot \sqrt{B^2 \cdot (A^2 + N_u^2)^2} \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2}}{B \cdot (A^2 + N_u^2) \cdot \sqrt{A \cdot N_u^4 \cdot (B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2)}}$$

0, 0, 3:

$$\frac{N_u^2 \cdot \sqrt{C^2 \cdot (N_u^2 + 1)^2}}{C \cdot \sqrt{N_u^4 \cdot (N_u^2 + 1)}}$$

1, 0, 3:

$$\frac{\sqrt{A \cdot N_u^2} \cdot \sqrt{C^2 \cdot (A^2 + N_u^2)^2} \cdot \sqrt{A^2 - A \cdot N_u^2 + N_u^2}}{C \cdot (A^2 + N_u^2) \cdot \sqrt{A \cdot N_u^4 \cdot (A^2 - A \cdot N_u^2 + N_u^2)}}$$

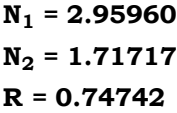
0, 2, 3:

$$\frac{N_u^2 \cdot \sqrt{B^2 \cdot C^2 \cdot (N_u^2 + 1)^2} \cdot \sqrt{B - N_u^2 + B \cdot N_u^2}}{B \cdot C \cdot \sqrt{N_u^4 \cdot (B - N_u^2 + B \cdot N_u^2)} \cdot (N_u^2 + 1)}$$

1, 2, 3:

$$\frac{\sqrt{A \cdot N_u^2} \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2} \cdot \sqrt{B^2 \cdot C^2 \cdot (A^2 + N_u^2)^2}}{B \cdot C \cdot (A^2 + N_u^2) \cdot \sqrt{A \cdot N_u^4 \cdot (B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2)}}$$

30BT4R2


$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$
$$\frac{\mathbf{A} \cdot \mathbf{N}_u^2}{\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_u + \mathbf{N}_u^2)} = 0.747413$$

$$\mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_u^2}{\sqrt{(\mathbf{A} \cdot \mathbf{N}_u^2)^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot \sqrt{\mathbf{B}^2 \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)^2}}{\mathbf{B} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}} = 0$$



For 2 variables there are 4 subsets.

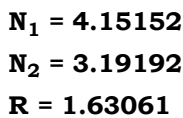
0, 0:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - N_u + 1)^2}}{\sqrt{N_u^4} \cdot (N_u^2 - N_u + 1)}$$

1, 0:
$$\frac{A \cdot N_u^2 \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2)^2}}{\sqrt{A^2 \cdot N_u^4} \cdot (A^2 - A \cdot N_u + N_u^2)}$$

0, 2:
$$\frac{N_u^2 \cdot \sqrt{B^2 \cdot (N_u^2 - N_u + 1)^2}}{B \cdot \sqrt{N_u^4} \cdot (N_u^2 - N_u + 1)}$$

1, 2:
$$\frac{A \cdot N_u^2 \cdot \sqrt{B^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}{B \cdot \sqrt{A^2 \cdot N_u^4} \cdot (A^2 - A \cdot N_u + N_u^2)}$$

30BT4R3

$$\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot \mathbf{A} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{A}^3 \cdot \mathbf{B}}} = 1.630607$$


$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2}$$

$$\text{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})^2}} \quad \text{Den} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot \mathbf{A} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{A}^3 \cdot \mathbf{B}}}{\sqrt{\left[\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot \mathbf{A} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{A}^3 \cdot \mathbf{B}}\right]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot N_u}{\sqrt{A^2 \cdot N_u^2}} = 0$$



For 2 variables there are 4 subsets.

0, 0: $\frac{N_u}{\sqrt{N_u^2}}$

1, 0: $\frac{A \cdot N_u}{\sqrt{A^2 \cdot N_u^2}}$

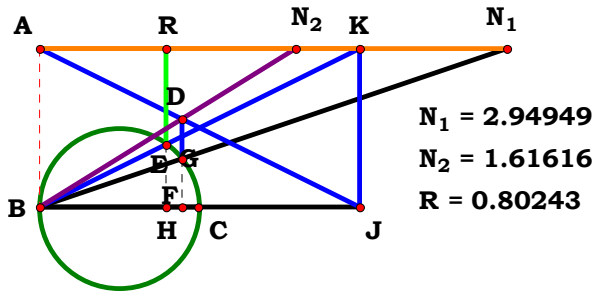
0, 2: $\frac{N_u}{\sqrt{N_u^2}}$

1, 2: $\frac{A \cdot N_u}{\sqrt{A^2 \cdot N_u^2}}$



30BT4R4

Descriptions.



Unit. $AB := 1$ Given. $N_1 := 2.94949$ $N_2 := 1.61616$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

$$\frac{N_u^4}{N_u^2 \cdot B^2 - 2 \cdot B \cdot N_u \cdot (A^2 + N_u^2) + A^4 + 2 \cdot N_u^2 \cdot (A^2 + N_u^2)} = 0.802431$$

$$Num := \frac{N_u^4}{\sqrt{(N_u^4)^2}}$$

$$Den := \frac{N_u^2 \cdot B^2 - 2 \cdot B \cdot N_u \cdot (A^2 + N_u^2) + A^4 + 2 \cdot N_u^2 \cdot (A^2 + N_u^2)}{\sqrt{[N_u^2 \cdot B^2 - 2 \cdot B \cdot N_u \cdot (A^2 + N_u^2) + A^4 + 2 \cdot N_u^2 \cdot (A^2 + N_u^2)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u^4 \cdot \sqrt{[A^4 + B^2 \cdot N_u^2 + 2 \cdot N_u^2 \cdot (A^2 + N_u^2) - 2 \cdot B \cdot N_u \cdot (A^2 + N_u^2)]^2}}{\sqrt{N_u^8 \cdot (A^4 - 2 \cdot A^2 \cdot B \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^3 + 2 \cdot N_u^4)}} = 0$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u^4 \cdot \sqrt{\left[N_u^2 - 2 \cdot N_u \cdot (N_u^2 + 1) + 2 \cdot N_u^2 \cdot (N_u^2 + 1) + 1\right]^2}}{\sqrt{N_u^8 \cdot \left(2 \cdot N_u^4 - 2 \cdot N_u^3 + 3 \cdot N_u^2 - 2 \cdot N_u + 1\right)}}$$

1, 0:

$$\frac{N_u^4 \cdot \sqrt{\left[A^4 - 2 \cdot N_u \cdot (A^2 + N_u^2) + N_u^2 + 2 \cdot N_u^2 \cdot (A^2 + N_u^2)\right]^2}}{\sqrt{N_u^8 \cdot \left(A^4 + 2 \cdot A^2 \cdot N_u^2 - 2 \cdot A^2 \cdot N_u + 2 \cdot N_u^4 - 2 \cdot N_u^3 + N_u^2\right)}}$$

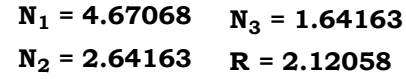
0, 2:

$$\frac{N_u^4 \cdot \sqrt{\left[B^2 \cdot N_u^2 + 2 \cdot N_u^2 \cdot (N_u^2 + 1) - 2 \cdot B \cdot N_u \cdot (N_u^2 + 1) + 1\right]^2}}{\sqrt{N_u^8 \cdot \left(B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^3 - 2 \cdot B \cdot N_u + 2 \cdot N_u^4 + 2 \cdot N_u^2 + 1\right)}}$$

1, 2:

$$\frac{N_u^4 \cdot \sqrt{\left[A^4 + B^2 \cdot N_u^2 + 2 \cdot N_u^2 \cdot (A^2 + N_u^2) - 2 \cdot B \cdot N_u \cdot (A^2 + N_u^2)\right]^2}}{\sqrt{N_u^8 \cdot \left(A^4 - 2 \cdot A^2 \cdot B \cdot N_u + 2 \cdot A^2 \cdot N_u^2 + B^2 \cdot N_u^2 - 2 \cdot B \cdot N_u^3 + 2 \cdot N_u^4\right)}}$$

30BT4R5



Descriptions.

$$\frac{1}{A^4 \cdot N_u \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2}} = 2.12059$$

$$\sqrt{\mathbf{N_u}^4 \cdot \sqrt{\mathbf{A} \cdot (\mathbf{A} - \mathbf{B})} + \mathbf{B} \cdot (\mathbf{C} \cdot \mathbf{A}^2 + \mathbf{C} \cdot \mathbf{N_u}^2)} \cdot \sqrt{\mathbf{B} \cdot \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N_u}^2 + \mathbf{B} \cdot \mathbf{N_u}^2 - \mathbf{A}^{\frac{5}{2}} \cdot \mathbf{B} \cdot \mathbf{N_u}^2}$$

$$\text{Den} := \frac{\sqrt{N_u^4 \cdot \sqrt{A \cdot (A - B) + B \cdot (C \cdot A^2 + C \cdot N_u^2)} \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2 - A^{\frac{5}{2}} \cdot B \cdot N_u^2}}}{\sqrt{\left[\sqrt{N_u^4 \cdot \sqrt{A \cdot (A - B) + B \cdot (C \cdot A^2 + C \cdot N_u^2)} \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2 - A^{\frac{5}{2}} \cdot B \cdot N_u^2}} \right]^2}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\frac{1}{\mathbf{A}^4} \cdot \mathbf{N}_u \cdot \sqrt{\mathbf{B} \cdot \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_u^2 + \mathbf{B} \cdot \mathbf{N}_u^2}}{\sqrt{\sqrt{\mathbf{A} \cdot \mathbf{N}_u^2} \cdot (\mathbf{B} \cdot \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_u^2 + \mathbf{B} \cdot \mathbf{N}_u^2)}} = 0$$

Unit. AB := 1 **Given.** $N_1 := 4.67068$ $N_2 := 2.64163$ $N_3 := 1.64163$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\text{Num} := \frac{\frac{1}{A^4} \cdot N_u \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2}}{\sqrt{\left(\frac{1}{A^4} \cdot N_u \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2} \right)^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$



For 3 variables there are 8 subsets.

0, 0, 0: $\frac{N_u}{\sqrt{N_u^2}}$

1, 0, 0: $\frac{A^{\frac{1}{4}} \cdot N_u \cdot \sqrt{A^2 - A \cdot N_u^2 + N_u^2}}{\sqrt{\sqrt{A} \cdot N_u^2 \cdot (A^2 - A \cdot N_u^2 + N_u^2)}}$

0, 2, 0: $\frac{N_u \cdot \sqrt{B - N_u^2 + B \cdot N_u^2}}{\sqrt{N_u^2 \cdot (B - N_u^2 + B \cdot N_u^2)}}$

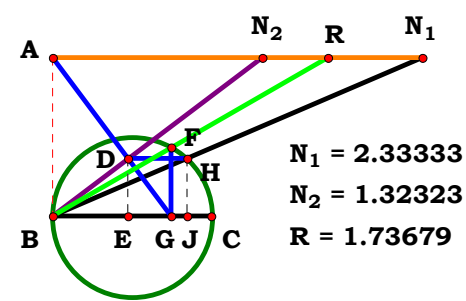
1, 2, 0: $\frac{A^{\frac{1}{4}} \cdot N_u \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2}}{\sqrt{\sqrt{A} \cdot N_u^2 \cdot (B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2)}}$

0, 0, 3: $\frac{N_u}{\sqrt{N_u^2}}$

1, 0, 3: $\frac{A^{\frac{1}{4}} \cdot N_u \cdot \sqrt{A^2 - A \cdot N_u^2 + N_u^2}}{\sqrt{\sqrt{A} \cdot N_u^2 \cdot (A^2 - A \cdot N_u^2 + N_u^2)}}$

0, 2, 3: $\frac{N_u \cdot \sqrt{B - N_u^2 + B \cdot N_u^2}}{\sqrt{N_u^2 \cdot (B - N_u^2 + B \cdot N_u^2)}}$

1, 2, 3: $\frac{A^{\frac{1}{4}} \cdot N_u \cdot \sqrt{B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2}}{\sqrt{\sqrt{A} \cdot N_u^2 \cdot (B \cdot A^2 - A \cdot N_u^2 + B \cdot N_u^2)}}$



Unit. $AB := 1$ Given. $N_1 := 2.33333$ $N_2 := 1.32323$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{\sqrt{A \cdot N_u}}{\sqrt{B \cdot A^2 - A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2}} = 1.736792$$

$$\text{Num} := \frac{\sqrt{A \cdot N_u}}{\sqrt{\left(\sqrt{A \cdot N_u}\right)^2}}$$

$$\text{Den} := \frac{\sqrt{B \cdot A^2 - A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2}}{\sqrt{\left(\sqrt{B \cdot A^2 - A \cdot N_u^2 - B \cdot A \cdot N_u + B \cdot N_u^2}\right)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$L - \frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}} = 0$



For 2 variables there are 4 subsets.

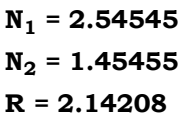
0, 0: $\frac{N_u}{\sqrt{N_u^2}}$

1, 0: $\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$

0, 2: $\frac{N_u}{\sqrt{N_u^2}}$

1, 2: $\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$

30BT4R7

$$\frac{N_u^2}{A^2 + N_u^2 - B \cdot N_u} = 2.142064$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\text{Num} := \frac{N_u^2}{\sqrt{(N_u^2)^2}} \quad \text{Den} := \frac{A^2 + N_u^2 - B \cdot N_u}{\sqrt{(A^2 + N_u^2 - B \cdot N_u)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N_u}^2 \cdot \sqrt{(\mathbf{A}^2 + \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{N_u})^2}}{\sqrt{\mathbf{N_u}^4 \cdot (\mathbf{A}^2 + \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{N_u})}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - N_u + 1)}}$$

1, 0:

$$\frac{N_u^2 \cdot \sqrt{(A^2 + N_u^2 - N_u)^2}}{\sqrt{N_u^4 \cdot (A^2 + N_u^2 - N_u)}}$$

0, 2:

$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - B \cdot N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - B \cdot N_u + 1)}}$$

1, 2:

$$\frac{N_u^2 \cdot \sqrt{(A^2 + N_u^2 - B \cdot N_u)^2}}{\sqrt{N_u^4 \cdot (A^2 + N_u^2 - B \cdot N_u)}}$$

30BT4R8

$$\frac{N_u}{\sqrt{A^2 - N_u \cdot A + B \cdot N_u}} = 0.669427$$

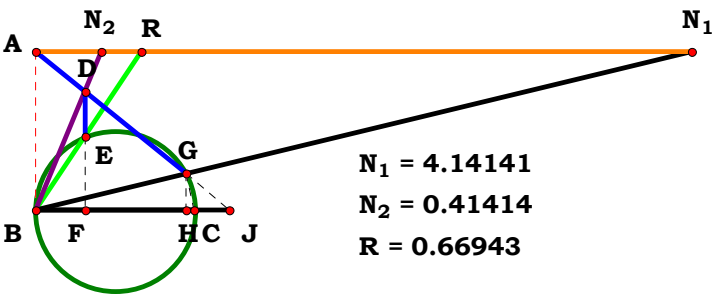
$$\mathbf{Num} := \frac{\mathbf{N}_u}{\sqrt{(\mathbf{N}_u)^2}}$$

$$\mathbf{Den} := \frac{\sqrt{\mathbf{A}^2 - \mathbf{N}_u \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_u}}{\sqrt{\left(\sqrt{\mathbf{A}^2 - \mathbf{N}_u \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_u}\right)^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_u}{\sqrt{\mathbf{N}_u^2}} = \mathbf{0}$$



$N_1 = 4.14141$
 $N_2 = 0.41414$
 $R = 0.66943$

Unit. $AB := 1$ **Given.** $N_1 := 4.14141$ $N_2 := .41414$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

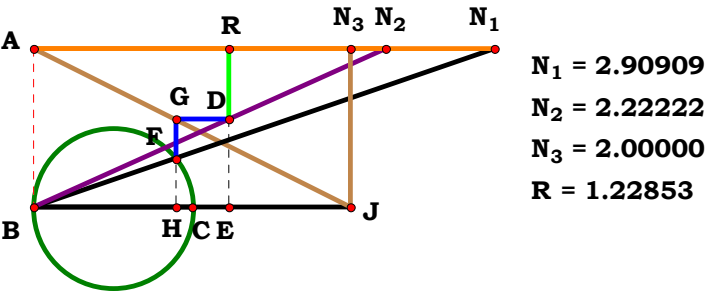


Unit.
AB := 1
Given.

30BT5R0

Descriptions.

$$\frac{\mathbf{N_u} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2 - \mathbf{C} \cdot \mathbf{N_u})}{\mathbf{B} \cdot (\mathbf{A}^2 + \mathbf{N_u}^2)} = 1.228529$$



Unit. AB := 1 **Given.** $N_1 := 2.90909$ $N_2 := 2.22222$ $N_3 := 2$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\sqrt{[\mathbf{B} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2 - \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})}{\mathbf{B} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2 - \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})^2} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)} = 0$$



For 3 variables there are 8 subsets.

$$\text{0, 0, 0:} \quad \frac{N_u \cdot \sqrt{(N_u^2 + 1)^2} \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2} \cdot (N_u^2 + 1)}$$

$$\text{1, 0, 0:} \quad \frac{N_u \cdot \sqrt{(A^2 + N_u^2)^2} \cdot (A^2 + N_u^2 - N_u)}{(A^2 + N_u^2) \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2 - N_u)^2}}$$

$$\text{0, 2, 0:} \quad \frac{N_u \cdot \sqrt{B^2 \cdot (N_u^2 + 1)^2} \cdot (N_u^2 - N_u + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2} \cdot (N_u^2 + 1)}$$

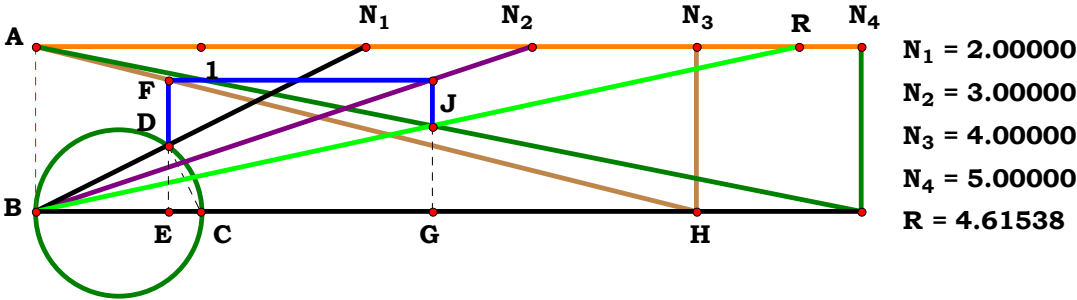
$$\text{1, 2, 0:} \quad \frac{N_u \cdot \sqrt{B^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 + N_u^2 - N_u)}{B \cdot (A^2 + N_u^2) \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2 - N_u)^2}}$$

$$\text{0, 0, 3:} \quad \frac{N_u \cdot \sqrt{(N_u^2 + 1)^2} \cdot (N_u^2 - C \cdot N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - C \cdot N_u + 1)^2} \cdot (N_u^2 + 1)}$$

$$\text{1, 0, 3:} \quad \frac{N_u \cdot \sqrt{(A^2 + N_u^2)^2} \cdot (A^2 + N_u^2 - C \cdot N_u)}{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - C \cdot N_u)^2} \cdot (A^2 + N_u^2)}$$

$$\text{0, 2, 3:} \quad \frac{N_u \cdot \sqrt{B^2 \cdot (N_u^2 + 1)^2} \cdot (N_u^2 - C \cdot N_u + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 - C \cdot N_u + 1)^2} \cdot (N_u^2 + 1)}$$

$$\text{1, 2, 3:} \quad \frac{N_u \cdot \sqrt{B^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 + N_u^2 - C \cdot N_u)}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2 - C \cdot N_u)^2} \cdot (A^2 + N_u^2)}$$



Unit.
AB
:=
1
Given.
N₁
:=
2
N₂
:=
3
N₃
:=
4
N₄
:=
5
N_u
:=
3
A
:=
N_u
/
N₁
B
:=
N_u
/
N₂
C
:=
N_u
/
N₃
D
:=
N_u
/
N₄

Descriptions.

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)
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⋅
B
−
A²
⋅
D
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B
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N_u²
−
D
⋅
N_u²
+
C
⋅
D
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N_u
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4.615385

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C
⋅
N_u
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]²

Den
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A²
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N_u²
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L
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Num
Den

Definitions.

Num
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Den
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N_u
)
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0



For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 0, 0, 0:

$$\frac{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - N_u)}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - N_u)^2}}$$

0, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{(B + N_u - N_u^2 + B \cdot N_u^2 - 1)^2 \cdot (N_u^2 - N_u + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2 \cdot (B + N_u - N_u^2 + B \cdot N_u^2 - 1)}}$$

1, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{(N_u - A^2 - N_u^2 + A^2 \cdot B + B \cdot N_u^2)^2 \cdot (A^2 + N_u^2 - N_u)}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - N_u)^2 \cdot (N_u - A^2 - N_u^2 + A^2 \cdot B + B \cdot N_u^2)}}$$

0, 0, 3, 0:

$$\frac{\sqrt{C^2 \cdot N_u^2 \cdot (N_u^2 - C \cdot N_u + 1)}}{C \cdot \sqrt{N_u^2 \cdot (N_u^2 - C \cdot N_u + 1)^2}}$$

1, 0, 3, 0:

$$\frac{\sqrt{C^2 \cdot N_u^2 \cdot (A^2 + N_u^2 - C \cdot N_u)}}{C \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2 - C \cdot N_u)^2}}$$

0, 2, 3, 0:

$$\frac{N_u \cdot \sqrt{(B - N_u^2 + C \cdot N_u + B \cdot N_u^2 - 1)^2 \cdot (N_u^2 - C \cdot N_u + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 - C \cdot N_u + 1)^2 \cdot (B - N_u^2 + C \cdot N_u + B \cdot N_u^2 - 1)}}$$

1, 2, 3, 0:

$$\frac{N_u \cdot \sqrt{(C \cdot N_u - N_u^2 - A^2 + A^2 \cdot B + B \cdot N_u^2)^2 \cdot (A^2 + N_u^2 - C \cdot N_u)}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - C \cdot N_u)^2 \cdot (C \cdot N_u - N_u^2 - A^2 + A^2 \cdot B + B \cdot N_u^2)}}$$



0, 0, 0, 4:

$$\frac{N_u \cdot \sqrt{\left(N_u^2 - D + D \cdot N_u - D \cdot N_u^2 + 1\right)^2 \cdot \left(N_u^2 - N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - N_u + 1\right)^2 \cdot \left(N_u^2 - D + D \cdot N_u - D \cdot N_u^2 + 1\right)}}$$

1, 0, 0, 4:

$$\frac{N_u \cdot \sqrt{\left(A^2 + N_u^2 + D \cdot N_u - A^2 \cdot D - D \cdot N_u^2\right)^2 \cdot \left(A^2 + N_u^2 - N_u\right)}}{\sqrt{N_u^2 \cdot \left(A^2 + N_u^2 - N_u\right)^2 \cdot \left(A^2 + N_u^2 + D \cdot N_u - A^2 \cdot D - D \cdot N_u^2\right)}}$$

0, 2, 0, 4:

$$\frac{N_u \cdot \sqrt{\left(B - D + D \cdot N_u + B \cdot N_u^2 - D \cdot N_u^2\right)^2 \cdot \left(N_u^2 - N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - N_u + 1\right)^2 \cdot \left(B - D + D \cdot N_u + B \cdot N_u^2 - D \cdot N_u^2\right)}}$$

1, 2, 0, 4:

$$\frac{N_u \cdot \sqrt{\left(D \cdot N_u + A^2 \cdot B - A^2 \cdot D + B \cdot N_u^2 - D \cdot N_u^2\right)^2 \cdot \left(A^2 + N_u^2 - N_u\right)}}{\sqrt{N_u^2 \cdot \left(A^2 + N_u^2 - N_u\right)^2 \cdot \left(D \cdot N_u + A^2 \cdot B - A^2 \cdot D + B \cdot N_u^2 - D \cdot N_u^2\right)}}$$

0, 0, 3, 4:

$$\frac{N_u \cdot \sqrt{\left(N_u^2 - D - D \cdot N_u^2 + C \cdot D \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - C \cdot N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - C \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - D - D \cdot N_u^2 + C \cdot D \cdot N_u + 1\right)}}$$

1, 0, 3, 4:

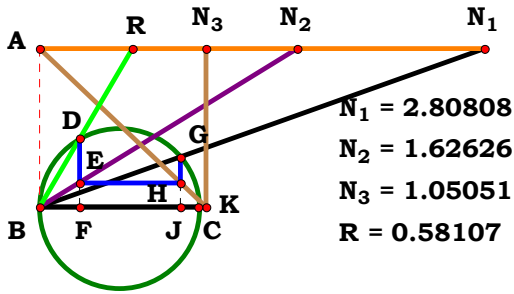
$$\frac{N_u \cdot \sqrt{\left(A^2 + N_u^2 - A^2 \cdot D - D \cdot N_u^2 + C \cdot D \cdot N_u\right)^2 \cdot \left(A^2 + N_u^2 - C \cdot N_u\right)}}{\sqrt{N_u^2 \cdot \left(A^2 + N_u^2 - C \cdot N_u\right)^2 \cdot \left(A^2 + N_u^2 - A^2 \cdot D - D \cdot N_u^2 + C \cdot D \cdot N_u\right)}}$$

0, 2, 3, 4:

$$\frac{N_u \cdot \sqrt{\left(B - D + B \cdot N_u^2 - D \cdot N_u^2 + C \cdot D \cdot N_u\right)^2 \cdot \left(N_u^2 - C \cdot N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - C \cdot N_u + 1\right)^2 \cdot \left(B - D + B \cdot N_u^2 - D \cdot N_u^2 + C \cdot D \cdot N_u\right)}}$$

1, 2, 3, 4:

$$\frac{N_u \cdot \sqrt{\left(A^2 \cdot B - A^2 \cdot D + B \cdot N_u^2 - D \cdot N_u^2 + C \cdot D \cdot N_u\right)^2 \cdot \left(A^2 + N_u^2 - C \cdot N_u\right)}}{\sqrt{N_u^2 \cdot \left(A^2 + N_u^2 - C \cdot N_u\right)^2 \cdot \left(A^2 \cdot B - A^2 \cdot D + B \cdot N_u^2 - D \cdot N_u^2 + C \cdot D \cdot N_u\right)}}$$



Unit. $AB := 1$ Given. $N_1 := 2.80808$ $N_2 := 1.62626$ $N_3 := 1.05051$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A^2 + N_u^2 - C \cdot N_u)}{\sqrt{N_u \cdot (A^2 + N_u^2 - C \cdot N_u) \cdot (A^2 \cdot B - N_u^3 - A^2 \cdot N_u + B \cdot N_u^2 + C \cdot N_u^2)}} = 0.581077$$

$$\text{Den} := \frac{\sqrt{N_u \cdot (A^2 + N_u^2 - C \cdot N_u) \cdot (A^2 \cdot B - N_u^3 - A^2 \cdot N_u + B \cdot N_u^2 + C \cdot N_u^2)}}{\sqrt{\left[\sqrt{N_u \cdot (A^2 + N_u^2 - C \cdot N_u) \cdot (A^2 \cdot B - N_u^3 - A^2 \cdot N_u + B \cdot N_u^2 + C \cdot N_u^2)} \right]^2}}$$

Definitions.

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{N_u \cdot (A^2 + N_u^2 - C \cdot N_u)}{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - C \cdot N_u)^2}} = 0$$

$$\text{Num} := \frac{N_u \cdot (A^2 + N_u^2 - C \cdot N_u)}{\sqrt{\left[N_u \cdot (A^2 + N_u^2 - C \cdot N_u) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$



For 3 variables there are 8 subsets.

0, 0, 0:
$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 0, 0:
$$\frac{N_u \cdot (A^2 + N_u^2 - N_u)}{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - N_u)^2}}$$

0, 2, 0:
$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

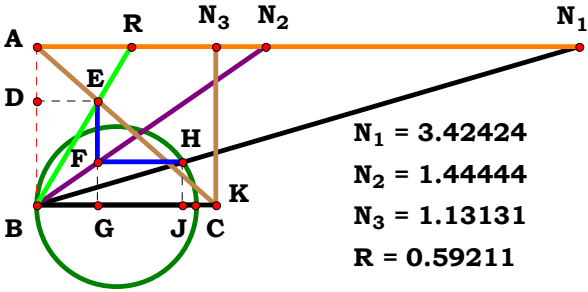
1, 2, 0:
$$\frac{N_u \cdot (A^2 + N_u^2 - N_u)}{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - N_u)^2}}$$

0, 0, 3:
$$\frac{N_u \cdot (N_u^2 - C \cdot N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - C \cdot N_u + 1)^2}}$$

1, 0, 3:
$$\frac{N_u \cdot (A^2 + N_u^2 - C \cdot N_u)}{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - C \cdot N_u)^2}}$$

0, 2, 3:
$$\frac{N_u \cdot (N_u^2 - C \cdot N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - C \cdot N_u + 1)^2}}$$

1, 2, 3:
$$\frac{N_u \cdot (A^2 + N_u^2 - C \cdot N_u)}{\sqrt{N_u^2 \cdot (A^2 + N_u^2 - C \cdot N_u)^2}}$$



Unit. $AB := 1$ Given. $N_1 := 3.42424$ $N_2 := 1.44444$ $N_3 := 1.13131$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{A \cdot N_u^2}{B \cdot A^2 - C \cdot A \cdot N_u + B \cdot N_u^2} = 0.592107$$

$$Num := \frac{A \cdot N_u^2}{\sqrt{(A \cdot N_u^2)^2}}$$

$$Den := \frac{B \cdot A^2 - C \cdot A \cdot N_u + B \cdot N_u^2}{\sqrt{(B \cdot A^2 - C \cdot A \cdot N_u + B \cdot N_u^2)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A \cdot N_u^2 \cdot \sqrt{(B \cdot A^2 - C \cdot A \cdot N_u + B \cdot N_u^2)^2}}{\sqrt{A^2 \cdot N_u^4 \cdot (B \cdot A^2 - C \cdot A \cdot N_u + B \cdot N_u^2)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - N_u + 1)}}$$

0, 0, 3:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - C \cdot N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - C \cdot N_u + 1)}}$$

1, 0, 0:
$$\frac{A \cdot N_u^2 \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2)^2}}{\sqrt{A^2 \cdot N_u^4 \cdot (A^2 - A \cdot N_u + N_u^2)}}$$

1, 0, 3:
$$\frac{A \cdot N_u^2 \cdot \sqrt{(A^2 - C \cdot A \cdot N_u + N_u^2)^2}}{\sqrt{A^2 \cdot N_u^4 \cdot (A^2 - C \cdot A \cdot N_u + N_u^2)}}$$

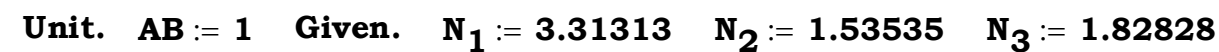
0, 2, 0:
$$\frac{N_u^2 \cdot \sqrt{(B \cdot N_u^2 - N_u + B)^2}}{\sqrt{N_u^4 \cdot (B \cdot N_u^2 - N_u + B)}}$$

0, 2, 3:
$$\frac{N_u^2 \cdot \sqrt{(B \cdot N_u^2 - C \cdot N_u + B)^2}}{\sqrt{N_u^4 \cdot (B \cdot N_u^2 - C \cdot N_u + B)}}$$

1, 2, 0:
$$\frac{A \cdot N_u^2 \cdot \sqrt{(B \cdot A^2 - A \cdot N_u + B \cdot N_u^2)^2}}{\sqrt{A^2 \cdot N_u^4 \cdot (B \cdot A^2 - A \cdot N_u + B \cdot N_u^2)}}$$

1, 2, 3:
$$\frac{A \cdot N_u^2 \cdot \sqrt{(B \cdot A^2 - C \cdot A \cdot N_u + B \cdot N_u^2)^2}}{\sqrt{A^2 \cdot N_u^4 \cdot (B \cdot A^2 - C \cdot A \cdot N_u + B \cdot N_u^2)}}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}}{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} + \mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})}} = 1.096582$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_u}}{\sqrt{(\sqrt{\mathbf{A} \cdot \mathbf{N}_u})^2}}$$

$$\mathbf{Den} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} + \mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})}}{\sqrt{\left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} + \mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})} \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

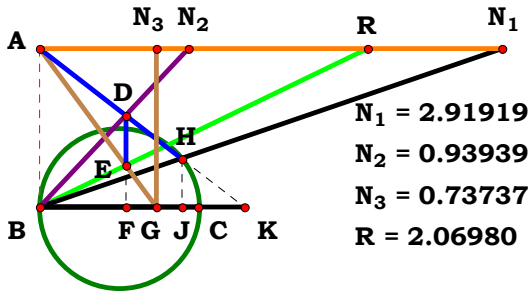
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_u}}{\sqrt{\mathbf{A} \cdot \mathbf{N}_u^2}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 3:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$	1, 0, 3:	$\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$
0, 2, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 2, 3:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 2, 0:	$\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$	1, 2, 3:	$\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$



Unit. $AB := 1$ Given. $N_1 := 2.91919$ $N_2 := .93939$ $N_3 := .73737$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u^2}{A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u} = 2.069809 \qquad Num := \frac{N_u^2}{\sqrt{\left(N_u^2\right)^2}}$$

$$Den := \frac{A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u}{\sqrt{\left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{N_u^2 \cdot \sqrt{\left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)^2}}{\sqrt{N_u^4 \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - N_u + 1)}}$$

1, 0, 0:
$$\frac{N_u^2 \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2)^2}}{\sqrt{N_u^4 \cdot (A^2 - A \cdot N_u + N_u^2)}}$$

0, 2, 0:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - 2 \cdot N_u + B \cdot N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - 2 \cdot N_u + B \cdot N_u + 1)}}$$

1, 2, 0:
$$\frac{N_u^2 \cdot \sqrt{(A^2 - N_u + N_u^2 - A \cdot N_u + B \cdot N_u)^2}}{\sqrt{N_u^4 \cdot (A^2 - N_u + N_u^2 - A \cdot N_u + B \cdot N_u)}}$$

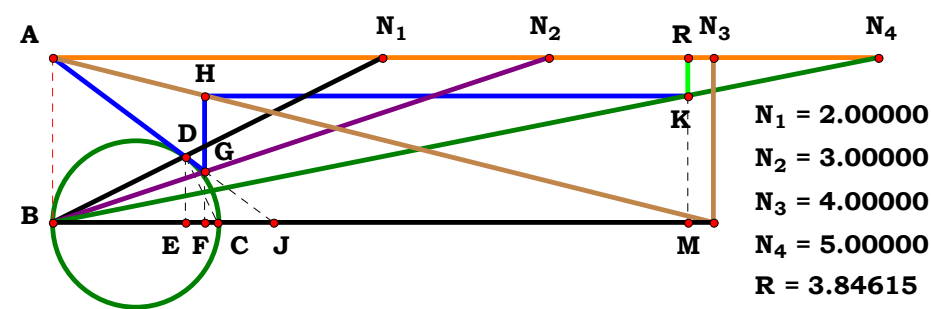
0, 0, 3:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - C \cdot N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - C \cdot N_u + 1)}}$$

1, 0, 3:
$$\frac{N_u^2 \cdot \sqrt{(N_u + A^2 + N_u^2 - A \cdot N_u - C \cdot N_u)^2}}{\sqrt{N_u^4 \cdot (N_u + A^2 + N_u^2 - A \cdot N_u - C \cdot N_u)}}$$

0, 2, 3:
$$\frac{N_u^2 \cdot \sqrt{(N_u^2 - N_u + B \cdot N_u - C \cdot N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - N_u + B \cdot N_u - C \cdot N_u + 1)}}$$

1, 2, 3:
$$\frac{N_u^2 \cdot \sqrt{(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u)^2}}{\sqrt{N_u^4 \cdot (A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u)}}$$

30BT5R6



Unit. **AB** := 1 **Given.** **N₁** := 2 **N₂** := 3 **N₃** := 4
 N₄ := 5

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$ **D** := $\frac{N_u}{N_4}$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_u \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_u + \mathbf{N}_u^2 + \mathbf{B} \cdot \mathbf{N}_u)^2} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2 - \mathbf{A} \cdot \mathbf{N}_u + \mathbf{B} \cdot \mathbf{N}_u - \mathbf{C} \cdot \mathbf{N}_u)}{\mathbf{D} \cdot \sqrt{\mathbf{N}_u^2 \cdot (\mathbf{A}^2 + \mathbf{N}_u^2 - \mathbf{A} \cdot \mathbf{N}_u + \mathbf{B} \cdot \mathbf{N}_u - \mathbf{C} \cdot \mathbf{N}_u)^2} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_u + \mathbf{N}_u^2 + \mathbf{B} \cdot \mathbf{N}_u)} = \mathbf{0}$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{\left(N_u^2 + 1\right)^2 \cdot \left(N_u^2 - N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - N_u + 1\right)^2 \cdot \left(N_u^2 + 1\right)}}$$

1, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{\left(A^2 - A \cdot N_u + N_u^2 + N_u\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2\right)}}{\sqrt{N_u^2 \cdot \left(A^2 - A \cdot N_u + N_u^2\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + N_u\right)}}$$

0, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{\left(N_u^2 - N_u + B \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - 2 \cdot N_u + B \cdot N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - 2 \cdot N_u + B \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - N_u + B \cdot N_u + 1\right)}}$$

1, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{\left(A^2 - A \cdot N_u + N_u^2 + B \cdot N_u\right)^2 \cdot \left(A^2 - N_u + N_u^2 - A \cdot N_u + B \cdot N_u\right)}}{\sqrt{N_u^2 \cdot \left(A^2 - N_u + N_u^2 - A \cdot N_u + B \cdot N_u\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + B \cdot N_u\right)}}$$

0, 0, 3, 0:

$$\frac{N_u \cdot \sqrt{\left(N_u^2 + 1\right)^2 \cdot \left(N_u^2 - C \cdot N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - C \cdot N_u + 1\right)^2 \cdot \left(N_u^2 + 1\right)}}$$

1, 0, 3, 0:

$$\frac{N_u \cdot \sqrt{\left(A^2 - A \cdot N_u + N_u^2 + N_u\right)^2 \cdot \left(N_u + A^2 + N_u^2 - A \cdot N_u - C \cdot N_u\right)}}{\sqrt{N_u^2 \cdot \left(N_u + A^2 + N_u^2 - A \cdot N_u - C \cdot N_u\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + N_u\right)}}$$

0, 2, 3, 0:

$$\frac{N_u \cdot \sqrt{\left(N_u^2 - N_u + B \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - N_u + B \cdot N_u - C \cdot N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - N_u + B \cdot N_u - C \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - N_u + B \cdot N_u + 1\right)}}$$

1, 2, 3, 0:

$$\frac{N_u \cdot \sqrt{\left(A^2 - A \cdot N_u + N_u^2 + B \cdot N_u\right)^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)}}{\sqrt{N_u^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + B \cdot N_u\right)}}$$



0, 0, 0, 4:

$$\frac{N_u \cdot \sqrt{D^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - N_u + 1)}}{D \cdot \sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2 \cdot (N_u^2 + 1)}}$$

1, 0, 0, 4:

$$\frac{N_u \cdot \sqrt{D^2 \cdot (A^2 - A \cdot N_u + N_u^2 + N_u)^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}{D \cdot \sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2 \cdot (A^2 - A \cdot N_u + N_u^2 + N_u)}}$$

0, 2, 0, 4:

$$\frac{N_u \cdot \sqrt{D^2 \cdot (N_u^2 - N_u + B \cdot N_u + 1)^2 \cdot (N_u^2 - 2 \cdot N_u + B \cdot N_u + 1)}}{D \cdot \sqrt{N_u^2 \cdot (N_u^2 - 2 \cdot N_u + B \cdot N_u + 1)^2 \cdot (N_u^2 - N_u + B \cdot N_u + 1)}}$$

1, 2, 0, 4:

$$\frac{N_u \cdot \sqrt{D^2 \cdot (A^2 - A \cdot N_u + N_u^2 + B \cdot N_u)^2 \cdot (A^2 - N_u + N_u^2 - A \cdot N_u + B \cdot N_u)}}{D \cdot \sqrt{N_u^2 \cdot (A^2 - N_u + N_u^2 - A \cdot N_u + B \cdot N_u)^2 \cdot (A^2 - A \cdot N_u + N_u^2 + B \cdot N_u)}}$$

0, 0, 3, 4:

$$\frac{N_u \cdot \sqrt{D^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - C \cdot N_u + 1)}}{D \cdot \sqrt{N_u^2 \cdot (N_u^2 - C \cdot N_u + 1)^2 \cdot (N_u^2 + 1)}}$$

1, 0, 3, 4:

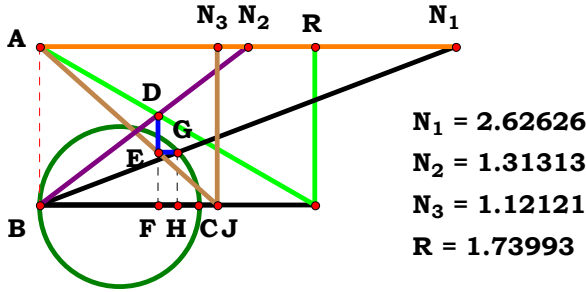
$$\frac{N_u \cdot \sqrt{D^2 \cdot (A^2 - A \cdot N_u + N_u^2 + N_u)^2 \cdot (N_u + A^2 + N_u^2 - A \cdot N_u - C \cdot N_u)}}{D \cdot \sqrt{N_u^2 \cdot (N_u + A^2 + N_u^2 - A \cdot N_u - C \cdot N_u)^2 \cdot (A^2 - A \cdot N_u + N_u^2 + N_u)}}$$

0, 2, 3, 4:

$$\frac{N_u \cdot \sqrt{D^2 \cdot (N_u^2 - N_u + B \cdot N_u + 1)^2 \cdot (N_u^2 - N_u + B \cdot N_u - C \cdot N_u + 1)}}{D \cdot \sqrt{N_u^2 \cdot (N_u^2 - N_u + B \cdot N_u - C \cdot N_u + 1)^2 \cdot (N_u^2 - N_u + B \cdot N_u + 1)}}$$

1, 2, 3, 4:

$$\frac{N_u \cdot \sqrt{D^2 \cdot (A^2 - A \cdot N_u + N_u^2 + B \cdot N_u)^2 \cdot (A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u)}}{D \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u)^2 \cdot (A^2 - A \cdot N_u + N_u^2 + B \cdot N_u)}}$$



Unit. $AB := 1$ Given. $N_1 := 2.62626$ $N_2 := 1.31313$ $N_3 := 1.12121$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{A^2 \cdot C - A^2 \cdot B - B \cdot N_u^2 + C \cdot N_u^2 + A \cdot B \cdot N_u} = 1.73992 \quad \text{Num} := \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{\left[N_u \cdot (A^2 - A \cdot N_u + N_u^2)\right]^2}} \quad \text{Den} := \frac{A^2 \cdot C - A^2 \cdot B - B \cdot N_u^2 + C \cdot N_u^2 + A \cdot B \cdot N_u}{\sqrt{\left(A^2 \cdot C - A^2 \cdot B - B \cdot N_u^2 + C \cdot N_u^2 + A \cdot B \cdot N_u\right)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{\left(A^2 \cdot C - A^2 \cdot B - B \cdot N_u^2 + C \cdot N_u^2 + A \cdot B \cdot N_u\right)^2} \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2} \cdot (A^2 \cdot C - A^2 \cdot B - B \cdot N_u^2 + C \cdot N_u^2 + A \cdot B \cdot N_u)} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 0, 0:

$$\frac{\sqrt{A^2 \cdot N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}{A \cdot \sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}$$

0, 2, 0:

$$\frac{N_u \cdot \sqrt{(N_u^2 - B + B \cdot N_u - B \cdot N_u^2 + 1)^2 \cdot (N_u^2 - N_u + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2 \cdot (N_u^2 - B + B \cdot N_u - B \cdot N_u^2 + 1)}}$$

1, 2, 0:

$$\frac{N_u \cdot \sqrt{(A^2 + N_u^2 - A^2 \cdot B - B \cdot N_u^2 + A \cdot B \cdot N_u)^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2 \cdot (A^2 + N_u^2 - A^2 \cdot B - B \cdot N_u^2 + A \cdot B \cdot N_u)}}$$

0, 0, 3:

$$\frac{N_u \cdot \sqrt{(C + N_u - N_u^2 + C \cdot N_u^2 - 1)^2 \cdot (N_u^2 - N_u + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2 \cdot (C + N_u - N_u^2 + C \cdot N_u^2 - 1)}}$$

1, 0, 3:

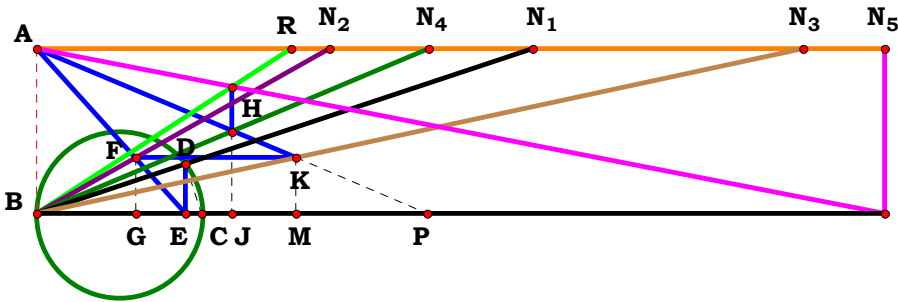
$$\frac{N_u \cdot \sqrt{(A \cdot N_u - N_u^2 - A^2 + A^2 \cdot C + C \cdot N_u^2)^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2 \cdot (A \cdot N_u - N_u^2 - A^2 + A^2 \cdot C + C \cdot N_u^2)}}$$

0, 2, 3:

$$\frac{N_u \cdot \sqrt{(C - B + B \cdot N_u - B \cdot N_u^2 + C \cdot N_u^2)^2 \cdot (N_u^2 - N_u + 1)}}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2 \cdot (C - B + B \cdot N_u - B \cdot N_u^2 + C \cdot N_u^2)}}$$

1, 2, 3:

$$\frac{N_u \cdot \sqrt{(A^2 \cdot C - A^2 \cdot B - B \cdot N_u^2 + C \cdot N_u^2 + A \cdot B \cdot N_u)^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2 \cdot (A^2 \cdot C - A^2 \cdot B - B \cdot N_u^2 + C \cdot N_u^2 + A \cdot B \cdot N_u)}}$$



N₁ = 3.00000
N₂ = 1.76991
N₃ = 4.64163
N₄ = 2.37279
N₅ = 5.12938
R = 1.53806

Unit. AB := 1 Given. N₁ := 3 N₂ := 1.76991 N₃ := 4.64163
N₄ := 2.37279 N₅ := 5.12938

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{B \cdot N_u^2}{A^2 \cdot C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u} = 1.53806$$

Num := $\frac{B \cdot N_u^2}{\sqrt{(B \cdot N_u^2)^2}}$

Den := $\frac{A^2 \cdot C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u}{\sqrt{(A^2 \cdot C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u)^2}}$

L := $\frac{\text{Num}}{\text{Den}}$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{B \cdot N_u^2 \cdot \sqrt{(A^2 \cdot C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (A^2 \cdot C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u)}} = 0$$



For 5 variables there are 32 subsets.

$$0, 0, 0, 0, 0: \frac{N_u^2 \cdot \sqrt{(N_u^2 + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 + 1)}}$$

$$1, 0, 0, 0, 0: \frac{N_u^2 \cdot \sqrt{(A^2 + N_u^2)^2}}{\sqrt{N_u^4 \cdot (A^2 + N_u^2)}}$$

$$0, 2, 0, 0, 0: \frac{B \cdot N_u^2 \cdot \sqrt{(N_u^2 + 1)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (N_u^2 + 1)}}$$

$$1, 2, 0, 0, 0: \frac{B \cdot N_u^2 \cdot \sqrt{(A^2 + N_u^2)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (A^2 + N_u^2)}}$$

$$0, 0, 3, 0, 0: \frac{N_u^2 \cdot \sqrt{(C \cdot N_u^2 + C)^2}}{\sqrt{N_u^4 \cdot (C \cdot N_u^2 + C)}}$$

$$1, 0, 3, 0, 0: \frac{N_u^2 \cdot \sqrt{(C \cdot A^2 + C \cdot N_u^2)^2}}{\sqrt{N_u^4 \cdot (C \cdot A^2 + C \cdot N_u^2)}}$$

$$0, 2, 3, 0, 0: \frac{B \cdot N_u^2 \cdot \sqrt{(C \cdot N_u^2 + C)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (C \cdot N_u^2 + C)}}$$

$$1, 2, 3, 0, 0: \frac{B \cdot N_u^2 \cdot \sqrt{(C \cdot A^2 + C \cdot N_u^2)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (C \cdot A^2 + C \cdot N_u^2)}}$$

$$0, 0, 0, 4, 0: \frac{N_u^2 \cdot \sqrt{(N_u^2 - N_u + D \cdot N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 - N_u + D \cdot N_u + 1)}}$$

$$1, 0, 0, 4, 0: \frac{N_u^2 \cdot \sqrt{(A^2 - N_u + N_u^2 + D \cdot N_u)^2}}{\sqrt{N_u^4 \cdot (A^2 - N_u + N_u^2 + D \cdot N_u)}}$$

$$0, 2, 0, 4, 0: \frac{B \cdot N_u^2 \cdot \sqrt{(N_u^2 - B \cdot N_u + B \cdot D \cdot N_u + 1)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (N_u^2 - B \cdot N_u + B \cdot D \cdot N_u + 1)}}$$

$$1, 2, 0, 4, 0: \frac{B \cdot N_u^2 \cdot \sqrt{(A^2 + N_u^2 - B \cdot N_u + B \cdot D \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (A^2 + N_u^2 - B \cdot N_u + B \cdot D \cdot N_u)}}$$

$$0, 0, 3, 4, 0: \frac{N_u^2 \cdot \sqrt{(C - N_u + D \cdot N_u + C \cdot N_u^2)^2}}{\sqrt{N_u^4 \cdot (C - N_u + D \cdot N_u + C \cdot N_u^2)}}$$

$$1, 0, 3, 4, 0: \frac{N_u^2 \cdot \sqrt{(D \cdot N_u - N_u + A^2 \cdot C + C \cdot N_u^2)^2}}{\sqrt{N_u^4 \cdot (D \cdot N_u - N_u + A^2 \cdot C + C \cdot N_u^2)}}$$

$$0, 2, 3, 4, 0: \frac{B \cdot N_u^2 \cdot \sqrt{(C - B \cdot N_u + C \cdot N_u^2 + B \cdot D \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (C - B \cdot N_u + C \cdot N_u^2 + B \cdot D \cdot N_u)}}$$

$$1, 2, 3, 4, 0: \frac{B \cdot N_u^2 \cdot \sqrt{(A^2 \cdot C - B \cdot N_u + C \cdot N_u^2 + B \cdot D \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (A^2 \cdot C - B \cdot N_u + C \cdot N_u^2 + B \cdot D \cdot N_u)}}$$

$$0, 0, 0, 0, 5: \frac{N_u^2 \cdot \sqrt{(N_u + N_u^2 - E \cdot N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u + N_u^2 - E \cdot N_u + 1)}}$$

$$1, 0, 0, 0, 5: \frac{N_u^2 \cdot \sqrt{(N_u + A^2 + N_u^2 - E \cdot N_u)^2}}{\sqrt{N_u^4 \cdot (N_u + A^2 + N_u^2 - E \cdot N_u)}}$$

$$0, 2, 0, 0, 5: \frac{B \cdot N_u^2 \cdot \sqrt{(N_u^2 + B \cdot N_u - B \cdot E \cdot N_u + 1)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (N_u^2 + B \cdot N_u - B \cdot E \cdot N_u + 1)}}$$

$$1, 2, 0, 0, 5: \frac{B \cdot N_u^2 \cdot \sqrt{(A^2 + N_u^2 + B \cdot N_u - B \cdot E \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (A^2 + N_u^2 + B \cdot N_u - B \cdot E \cdot N_u)}}$$

$$0, 0, 3, 0, 5: \frac{N_u^2 \cdot \sqrt{(C + N_u - E \cdot N_u + C \cdot N_u^2)^2}}{\sqrt{N_u^4 \cdot (C + N_u - E \cdot N_u + C \cdot N_u^2)}}$$

$$1, 0, 3, 0, 5: \frac{N_u^2 \cdot \sqrt{(N_u - E \cdot N_u + A^2 \cdot C + C \cdot N_u^2)^2}}{\sqrt{N_u^4 \cdot (N_u - E \cdot N_u + A^2 \cdot C + C \cdot N_u^2)}}$$

$$0, 2, 3, 0, 5: \frac{B \cdot N_u^2 \cdot \sqrt{(C + B \cdot N_u + C \cdot N_u^2 - B \cdot E \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (C + B \cdot N_u + C \cdot N_u^2 - B \cdot E \cdot N_u)}}$$

$$1, 2, 3, 0, 5: \frac{B \cdot N_u^2 \cdot \sqrt{(B \cdot N_u + A^2 \cdot C + C \cdot N_u^2 - B \cdot E \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (B \cdot N_u + A^2 \cdot C + C \cdot N_u^2 - B \cdot E \cdot N_u)}}$$

$$0, 0, 0, 4, 5: \frac{N_u^2 \cdot \sqrt{(N_u^2 + D \cdot N_u - E \cdot N_u + 1)^2}}{\sqrt{N_u^4 \cdot (N_u^2 + D \cdot N_u - E \cdot N_u + 1)}}$$

$$1, 0, 0, 4, 5: \frac{N_u^2 \cdot \sqrt{(A^2 + N_u^2 + D \cdot N_u - E \cdot N_u)^2}}{\sqrt{N_u^4 \cdot (A^2 + N_u^2 + D \cdot N_u - E \cdot N_u)}}$$

$$0, 2, 0, 4, 5: \frac{B \cdot N_u^2 \cdot \sqrt{(N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u + 1)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u + 1)}}$$

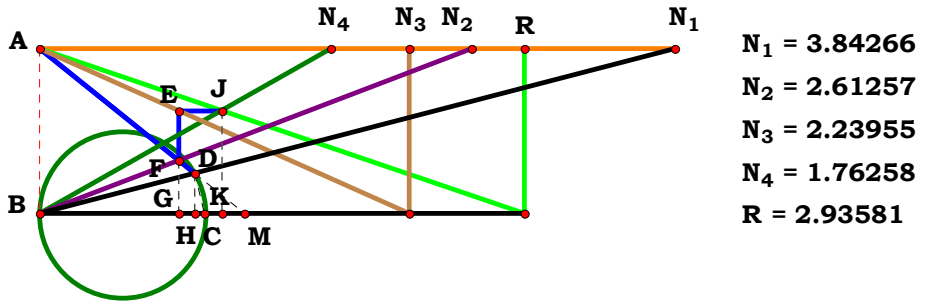
$$1, 2, 0, 4, 5: \frac{B \cdot N_u^2 \cdot \sqrt{(A^2 + N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (A^2 + N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u)}}$$

$$0, 0, 3, 4, 5: \frac{N_u^2 \cdot \sqrt{(C + D \cdot N_u - E \cdot N_u + C \cdot N_u^2)^2}}{\sqrt{N_u^4 \cdot (C + D \cdot N_u - E \cdot N_u + C \cdot N_u^2)}}$$

$$1, 0, 3, 4, 5: \frac{N_u^2 \cdot \sqrt{(D \cdot N_u - E \cdot N_u + A^2 \cdot C + C \cdot N_u^2)^2}}{\sqrt{N_u^4 \cdot (D \cdot N_u - E \cdot N_u + A^2 \cdot C + C \cdot N_u^2)}}$$

$$0, 2, 3, 4, 5: \frac{B \cdot N_u^2 \cdot \sqrt{(C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u)}}$$

$$1, 2, 3, 4, 5: \frac{B \cdot N_u^2 \cdot \sqrt{(A^2 \cdot C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u)^2}}{\sqrt{B^2 \cdot N_u^4 \cdot (A^2 \cdot C + C \cdot N_u^2 + B \cdot D \cdot N_u - B \cdot E \cdot N_u)}}$$



Unit. $AB := 1$ Given. $N_1 := 3.84266$ $N_2 := 2.61257$ $N_3 := 2.23955$
 $N_4 := 1.76258$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u}{C \cdot D} = 2.935802$$

$$Num := \frac{A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u}{\sqrt{\left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)^2}}$$

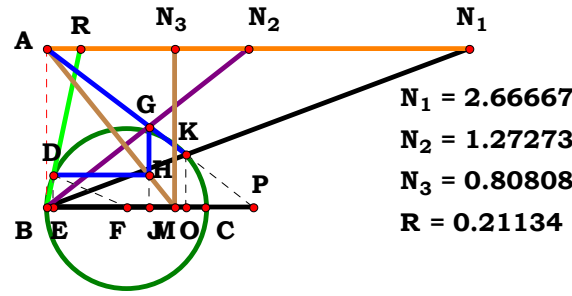
$$Den := \frac{C \cdot D}{\sqrt{(C \cdot D)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{\sqrt{C^2 \cdot D^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)}}{C \cdot D \cdot \sqrt{\left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.66667$ $N_2 := 1.27273$ $N_3 := .80808$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u^4 - N_u^2 \cdot \sqrt{\left(3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u\right) \cdot \left(A \cdot N_u - N_u^2 - A^2 - B \cdot N_u + 2 \cdot C \cdot N_u\right)} + N_u^2 \cdot \left(A^2 - N_u \cdot A + B \cdot N_u\right)}{2 \cdot N_u^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)} = 0.211336$$

$$\text{Num} := \frac{N_u^4 - N_u^2 \cdot \sqrt{\left(3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u\right) \cdot \left(A \cdot N_u - N_u^2 - A^2 - B \cdot N_u + 2 \cdot C \cdot N_u\right)} + N_u^2 \cdot \left(A^2 - N_u \cdot A + B \cdot N_u\right)}{\sqrt{\left[N_u^4 - N_u^2 \cdot \sqrt{\left(3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u\right) \cdot \left(A \cdot N_u - N_u^2 - A^2 - B \cdot N_u + 2 \cdot C \cdot N_u\right)} + N_u^2 \cdot \left(A^2 - N_u \cdot A + B \cdot N_u\right)\right]^2}}$$

$$\text{Den} := \frac{2 \cdot N_u^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)}{\sqrt{\left[2 \cdot N_u^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\sqrt{N_u^4 \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)^2} \cdot \left[A^2 - \sqrt{-\left(3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u\right) \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - 2 \cdot C \cdot N_u\right)} + N_u^2 - A \cdot N_u + B \cdot N_u\right]}{\sqrt{\left[N_u^4 - N_u^2 \cdot \sqrt{-\left(3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u\right) \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - 2 \cdot C \cdot N_u\right)} + N_u^2 \cdot \left(A^2 - N_u \cdot A + B \cdot N_u\right)\right]^2} \cdot \left(A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u\right)} = 0$$



For 3 variables there are 8 subsets.

$$0, 0, 0: \frac{\sqrt{N_u^4 \cdot (N_u^2 - N_u + 1)^2} \cdot [N_u^2 - \sqrt{-(N_u^2 - 2 \cdot N_u + 1) \cdot (3 \cdot N_u^2 - 2 \cdot N_u + 3)} + 1]}{\sqrt{[N_u^2 + N_u^4 - N_u^2 \cdot \sqrt{-(N_u^2 - 2 \cdot N_u + 1) \cdot (3 \cdot N_u^2 - 2 \cdot N_u + 3)}]^2 \cdot (N_u^2 - N_u + 1)}}$$

$$1, 0, 0: \frac{\sqrt{N_u^4 \cdot (A^2 - A \cdot N_u + N_u^2)^2} \cdot [N_u + A^2 + N_u^2 - A \cdot N_u - \sqrt{(-A^2 + A \cdot N_u - N_u^2 + N_u) \cdot (3 \cdot A^2 - 3 \cdot A \cdot N_u + 3 \cdot N_u^2 + N_u)}]}{\sqrt{[N_u^2 \cdot (A^2 - N_u \cdot A + N_u) + N_u^4 - N_u^2 \cdot \sqrt{(A \cdot N_u - A^2 - N_u^2 + N_u) \cdot (3 \cdot A^2 - 3 \cdot A \cdot N_u + 3 \cdot N_u^2 + N_u)}]^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}$$

$$0, 2, 0: \frac{\sqrt{N_u^4 \cdot (N_u^2 - 2 \cdot N_u + B \cdot N_u + 1)^2} \cdot [N_u^2 - N_u + B \cdot N_u - \sqrt{-(N_u^2 - 3 \cdot N_u + B \cdot N_u + 1) \cdot (3 \cdot N_u^2 - 5 \cdot N_u + 3 \cdot B \cdot N_u + 3)} + 1]}{\sqrt{[N_u^4 + N_u^2 \cdot (B \cdot N_u - N_u + 1) - N_u^2 \cdot \sqrt{-(N_u^2 - 3 \cdot N_u + B \cdot N_u + 1) \cdot (3 \cdot N_u^2 - 5 \cdot N_u + 3 \cdot B \cdot N_u + 3)}]^2 \cdot (N_u^2 - 2 \cdot N_u + B \cdot N_u + 1)}}$$

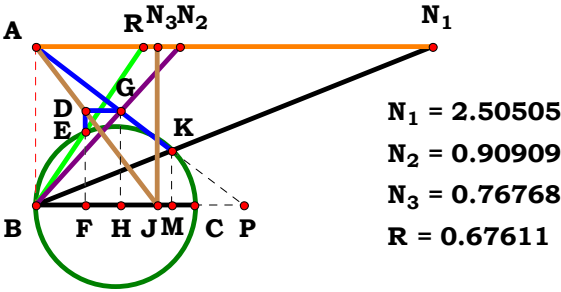
$$1, 2, 0: \frac{\sqrt{N_u^4 \cdot (A^2 - N_u + N_u^2 - A \cdot N_u + B \cdot N_u)^2} \cdot [A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - \sqrt{(3 \cdot A^2 - 2 \cdot N_u + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u) \cdot (A^2 - 2 \cdot N_u + N_u^2 - A \cdot N_u + B \cdot N_u)}]}{\sqrt{[N_u^4 - N_u^2 \cdot \sqrt{(3 \cdot A^2 - 2 \cdot N_u + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u) \cdot (A^2 - 2 \cdot N_u + N_u^2 - A \cdot N_u + B \cdot N_u)} + N_u^2 \cdot (A^2 - N_u \cdot A + B \cdot N_u)]^2 \cdot (A^2 - N_u + N_u^2 - A \cdot N_u + B \cdot N_u)}}$$

$$0, 0, 3: \frac{\sqrt{N_u^4 \cdot (N_u^2 - C \cdot N_u + 1)^2} \cdot [N_u^2 - \sqrt{-(3 \cdot N_u^2 - 2 \cdot C \cdot N_u + 3) \cdot (N_u^2 - 2 \cdot C \cdot N_u + 1)} + 1]}{\sqrt{[N_u^2 + N_u^4 - N_u^2 \cdot \sqrt{-(3 \cdot N_u^2 - 2 \cdot C \cdot N_u + 3) \cdot (N_u^2 - 2 \cdot C \cdot N_u + 1)}]^2 \cdot (N_u^2 - C \cdot N_u + 1)}}$$

$$1, 0, 3: \frac{\sqrt{N_u^4 \cdot (N_u + A^2 + N_u^2 - A \cdot N_u - C \cdot N_u)^2} \cdot [N_u - \sqrt{(3 \cdot N_u + 3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u - 2 \cdot C \cdot N_u) \cdot (N_u + A^2 + N_u^2 - A \cdot N_u - 2 \cdot C \cdot N_u)} + A^2 + N_u^2 - A \cdot N_u]}{\sqrt{[N_u^2 \cdot (A^2 - N_u \cdot A + N_u) + N_u^4 - N_u^2 \cdot \sqrt{(3 \cdot N_u + 3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u - 2 \cdot C \cdot N_u) \cdot (N_u + A^2 + N_u^2 - A \cdot N_u - 2 \cdot C \cdot N_u)}]^2 \cdot (N_u + A^2 + N_u^2 - A \cdot N_u - C \cdot N_u)}}$$

$$0, 2, 3: \frac{\sqrt{N_u^4 \cdot (N_u^2 - N_u + B \cdot N_u - C \cdot N_u + 1)^2} \cdot [N_u^2 - N_u + B \cdot N_u - \sqrt{-(N_u^2 - N_u + B \cdot N_u - 2 \cdot C \cdot N_u + 1) \cdot (3 \cdot N_u^2 - 3 \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u + 3)} + 1]}{\sqrt{[N_u^4 + N_u^2 \cdot (B \cdot N_u - N_u + 1) - N_u^2 \cdot \sqrt{-(N_u^2 - N_u + B \cdot N_u - 2 \cdot C \cdot N_u + 1) \cdot (3 \cdot N_u^2 - 3 \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u + 3)}]^2 \cdot (N_u^2 - N_u + B \cdot N_u - C \cdot N_u + 1)}}$$

$$1, 2, 3: \frac{\sqrt{N_u^4 \cdot (A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u)^2} \cdot [A^2 - \sqrt{(3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u) \cdot (A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - 2 \cdot C \cdot N_u)} + N_u^2 - A \cdot N_u + B \cdot N_u]}{\sqrt{[N_u^4 - N_u^2 \cdot \sqrt{(3 \cdot A^2 + 3 \cdot N_u^2 - 3 \cdot A \cdot N_u + 3 \cdot B \cdot N_u - 2 \cdot C \cdot N_u) \cdot (A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - 2 \cdot C \cdot N_u)} + N_u^2 \cdot (A^2 - N_u \cdot A + B \cdot N_u)]^2 \cdot (A^2 + N_u^2 - A \cdot N_u + B \cdot N_u - C \cdot N_u)}}$$



Unit. **AB** := 1 Given. **N₁** := 2.50505 **N₂** := .90909 **N₃** := .76768

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2) \cdot (C \cdot A^2 - A^2 \cdot N_u + A \cdot N_u^2 - C \cdot A \cdot N_u - N_u^3 + C \cdot N_u^2 + B \cdot C \cdot N_u)}} = 0.676107$$

$$Num := \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{\left[N_u \cdot (A^2 - A \cdot N_u + N_u^2)\right]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2) \cdot (C \cdot A^2 - A^2 \cdot N_u + A \cdot N_u^2 - C \cdot A \cdot N_u - N_u^3 + C \cdot N_u^2 + B \cdot C \cdot N_u)}}{\sqrt{\left[\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2) \cdot (C \cdot A^2 - A^2 \cdot N_u + A \cdot N_u^2 - C \cdot A \cdot N_u - N_u^3 + C \cdot N_u^2 + B \cdot C \cdot N_u)}\right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$L - \frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 0, 0:

$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}$$

0, 2, 0:

$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 2, 0:

$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}$$

0, 0, 3:

$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 0, 3:

$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}$$

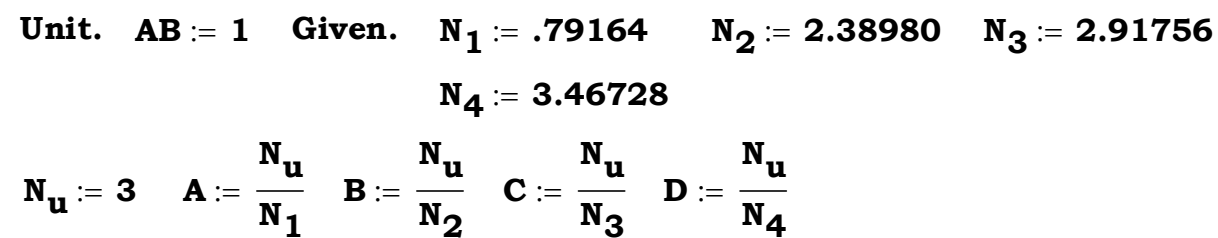
0, 2, 3:

$$\frac{N_u \cdot (N_u^2 - N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + 1)^2}}$$

1, 2, 3:

$$\frac{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2}}$$

Descriptions.



Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C}) \cdot \sqrt{\left[\mathbf{B} \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})} + \mathbf{A} \cdot \mathbf{D} + \mathbf{C} \cdot \mathbf{D} \right]^2}}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{C})^2} \cdot \left[\mathbf{B} \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})} + \mathbf{A} \cdot \mathbf{D} + \mathbf{C} \cdot \mathbf{D} \right]} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{\left[\sqrt{-N_u \cdot (N_u - 2)} + 2\right]^2}}{\sqrt{N_u^2} \cdot \left[\sqrt{-N_u \cdot (N_u - 2)} + 2\right]}$$

1, 0, 0, 0:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{\left[A + \sqrt{N_u \cdot (A - N_u + 1)} + 1\right]^2}}{\sqrt{N_u^2} \cdot (A + 1)^2 \cdot \left[A + \sqrt{N_u \cdot (A - N_u + 1)} + 1\right]}$$

0, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{\left[B \cdot \sqrt{-N_u \cdot (N_u - 2)} + 2\right]^2}}{\sqrt{N_u^2} \cdot \left[B \cdot \sqrt{-N_u \cdot (N_u - 2)} + 2\right]}$$

1, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{\left[A + B \cdot \sqrt{N_u \cdot (A - N_u + 1)} + 1\right]^2} \cdot (A + 1)}{\sqrt{N_u^2} \cdot (A + 1)^2 \cdot \left[A + B \cdot \sqrt{N_u \cdot (A - N_u + 1)} + 1\right]}$$

0, 0, 3, 0:

$$\frac{N_u \cdot (C + 1) \cdot \sqrt{\left[C + \sqrt{N_u \cdot (C - N_u + 1)} + 1\right]^2}}{\sqrt{N_u^2} \cdot (C + 1)^2 \cdot \left[C + \sqrt{N_u \cdot (C - N_u + 1)} + 1\right]}$$

1, 0, 3, 0:

$$\frac{N_u \cdot (A + C) \cdot \sqrt{\left[A + C + \sqrt{N_u \cdot (A + C - N_u)}\right]^2}}{\sqrt{N_u^2} \cdot (A + C)^2 \cdot \left[A + C + \sqrt{N_u \cdot (A + C - N_u)}\right]}$$

0, 2, 3, 0:

$$\frac{N_u \cdot \sqrt{\left[C + B \cdot \sqrt{N_u \cdot (C - N_u + 1)} + 1\right]^2} \cdot (C + 1)}{\sqrt{N_u^2} \cdot (C + 1)^2 \cdot \left[C + B \cdot \sqrt{N_u \cdot (C - N_u + 1)} + 1\right]}$$

1, 2, 3, 0:

$$\frac{N_u \cdot (A + C) \cdot \sqrt{\left[A + C + B \cdot \sqrt{N_u \cdot (A + C - N_u)}\right]^2}}{\sqrt{N_u^2} \cdot (A + C)^2 \cdot \left[A + C + B \cdot \sqrt{N_u \cdot (A + C - N_u)}\right]}$$

0, 0, 0, 4:

$$\frac{N_u \cdot \sqrt{\left[2 \cdot D + \sqrt{-N_u \cdot (N_u - 2)}\right]^2}}{\sqrt{N_u^2} \cdot \left[2 \cdot D + \sqrt{-N_u \cdot (N_u - 2)}\right]}$$

1, 0, 0, 4:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{\left[D + \sqrt{N_u \cdot (A - N_u + 1)} + A \cdot D\right]^2}}{\sqrt{N_u^2} \cdot (A + 1)^2 \cdot \left[D + \sqrt{N_u \cdot (A - N_u + 1)} + A \cdot D\right]}$$

0, 2, 0, 4:

$$\frac{N_u \cdot \sqrt{\left[2 \cdot D + B \cdot \sqrt{-N_u \cdot (N_u - 2)}\right]^2}}{\sqrt{N_u^2} \cdot \left[2 \cdot D + B \cdot \sqrt{-N_u \cdot (N_u - 2)}\right]}$$

1, 2, 0, 4:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{\left[D + A \cdot D + B \cdot \sqrt{N_u \cdot (A - N_u + 1)}\right]^2}}{\sqrt{N_u^2} \cdot (A + 1)^2 \cdot \left[D + A \cdot D + B \cdot \sqrt{N_u \cdot (A - N_u + 1)}\right]}$$

0, 0, 3, 4:

$$\frac{N_u \cdot (C + 1) \cdot \sqrt{\left[D + \sqrt{N_u \cdot (C - N_u + 1)} + C \cdot D\right]^2}}{\sqrt{N_u^2} \cdot (C + 1)^2 \cdot \left[D + \sqrt{N_u \cdot (C - N_u + 1)} + C \cdot D\right]}$$

1, 0, 3, 4:

$$\frac{N_u \cdot \sqrt{\left[\sqrt{N_u \cdot (A + C - N_u)} + A \cdot D + C \cdot D\right]^2} \cdot (A + C)}{\sqrt{N_u^2} \cdot (A + C)^2 \cdot \left[\sqrt{N_u \cdot (A + C - N_u)} + A \cdot D + C \cdot D\right]}$$

0, 2, 3, 4:

$$\frac{N_u \cdot (C + 1) \cdot \sqrt{\left[D + C \cdot D + B \cdot \sqrt{N_u \cdot (C - N_u + 1)}\right]^2}}{\sqrt{N_u^2} \cdot (C + 1)^2 \cdot \left[D + C \cdot D + B \cdot \sqrt{N_u \cdot (C - N_u + 1)}\right]}$$

1, 2, 3, 4:

$$\frac{N_u \cdot (A + C) \cdot \sqrt{\left[B \cdot \sqrt{N_u \cdot (A + C - N_u)} + A \cdot D + C \cdot D\right]^2}}{\sqrt{N_u^2} \cdot (A + C)^2 \cdot \left[B \cdot \sqrt{N_u \cdot (A + C - N_u)} + A \cdot D + C \cdot D\right]}$$



For 3 variables there are 8 subsets.

0, 0, 0:

0

0, 0, 3:

0

1, 0, 0:

$$-\frac{N_u \cdot (A - 1)}{\sqrt{N_u^2 \cdot (A - 1)^2}}$$

1, 0, 3:

$$-\frac{N_u \cdot (A - 1)}{\sqrt{N_u^2 \cdot (A - 1)^2}}$$

0, 2, 0:

$$\frac{N_u \cdot (B - 1)}{\sqrt{N_u^2 \cdot (B - 1)^2}}$$

0, 2, 3:

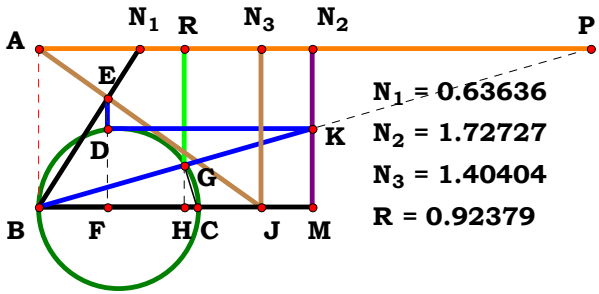
$$\frac{N_u \cdot (B - 1)}{\sqrt{N_u^2 \cdot (B - 1)^2}}$$

1, 2, 0:

$$-\frac{N_u \cdot (A - B)}{\sqrt{N_u^2 \cdot (A - B)^2}}$$

1, 2, 3:

$$-\frac{N_u \cdot (B - A)}{\sqrt{N_u^2 \cdot (A - B)^2}}$$



Unit. $AB := 1$ Given. $N_1 := .63636$ $N_2 := 1.72727$ $N_3 := 1.40404$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u \cdot (A + C)^2}{N_u \cdot A^2 + A \cdot B^2 + 2 \cdot N_u \cdot A \cdot C + B^2 \cdot C - N_u \cdot B^2 + N_u \cdot C^2} = 0.923786 \quad \text{Num} := \frac{N_u \cdot (A + C)^2}{\sqrt{\left[N_u \cdot (A + C)^2\right]^2}} \quad \text{Den} := \frac{N_u \cdot A^2 + A \cdot B^2 + 2 \cdot N_u \cdot A \cdot C + B^2 \cdot C - N_u \cdot B^2 + N_u \cdot C^2}{\sqrt{\left(N_u \cdot A^2 + A \cdot B^2 + 2 \cdot N_u \cdot A \cdot C + B^2 \cdot C - N_u \cdot B^2 + N_u \cdot C^2\right)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot (A + C)^2 \cdot \sqrt{\left(N_u \cdot A^2 + A \cdot B^2 + 2 \cdot N_u \cdot A \cdot C + B^2 \cdot C - N_u \cdot B^2 + N_u \cdot C^2\right)^2}}{\sqrt{N_u^2 \cdot (A + C)^4} \cdot \left(N_u \cdot A^2 + A \cdot B^2 + 2 \cdot N_u \cdot A \cdot C + B^2 \cdot C - N_u \cdot B^2 + N_u \cdot C^2\right)} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u \cdot \sqrt{(3 \cdot N_u + 2)^2}}{\sqrt{N_u^2 \cdot (3 \cdot N_u + 2)}}$$

1, 0, 0:

$$\frac{N_u \cdot \sqrt{(A + 2 \cdot A \cdot N_u + A^2 \cdot N_u + 1)^2 \cdot (A + 1)^2}}{\sqrt{N_u^2 \cdot (A + 1)^4 \cdot (A + 2 \cdot A \cdot N_u + A^2 \cdot N_u + 1)}}$$

0, 2, 0:

$$\frac{N_u \cdot \sqrt{(4 \cdot N_u + 2 \cdot B^2 - B^2 \cdot N_u)^2}}{\sqrt{N_u^2 \cdot (4 \cdot N_u + 2 \cdot B^2 - B^2 \cdot N_u)}}$$

1, 2, 0:

$$\frac{N_u \cdot (A + 1)^2 \cdot \sqrt{(N_u + B^2 + 2 \cdot A \cdot N_u + A \cdot B^2 + A^2 \cdot N_u - B^2 \cdot N_u)^2}}{\sqrt{N_u^2 \cdot (A + 1)^4 \cdot (N_u + B^2 + 2 \cdot A \cdot N_u + A \cdot B^2 + A^2 \cdot N_u - B^2 \cdot N_u)}}$$

0, 0, 3:

$$\frac{N_u \cdot \sqrt{(C + 2 \cdot C \cdot N_u + C^2 \cdot N_u + 1)^2 \cdot (C + 1)^2}}{\sqrt{N_u^2 \cdot (C + 1)^4 \cdot (C + 2 \cdot C \cdot N_u + C^2 \cdot N_u + 1)}}$$

1, 0, 3:

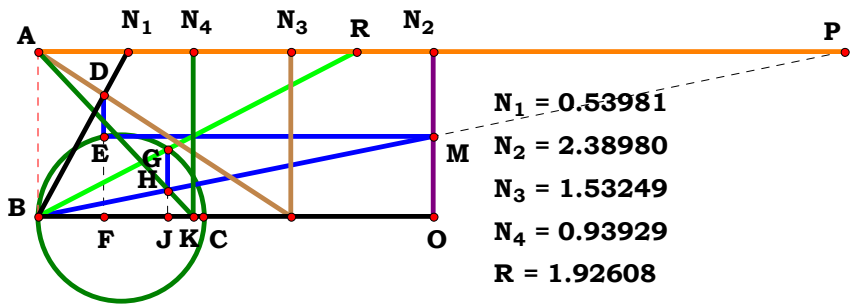
$$\frac{N_u \cdot (A + C)^2 \cdot \sqrt{(N_u \cdot A^2 + 2 \cdot N_u \cdot A \cdot C + A + N_u \cdot C^2 + C - N_u)^2}}{\sqrt{N_u^2 \cdot (A + C)^4 \cdot (N_u \cdot A^2 + 2 \cdot N_u \cdot A \cdot C + A + N_u \cdot C^2 + C - N_u)}}$$

0, 2, 3:

$$\frac{N_u \cdot (C + 1)^2 \cdot \sqrt{(N_u + B^2 + 2 \cdot C \cdot N_u + B^2 \cdot C - B^2 \cdot N_u + C^2 \cdot N_u)^2}}{\sqrt{N_u^2 \cdot (C + 1)^4 \cdot (N_u + B^2 + 2 \cdot C \cdot N_u + B^2 \cdot C - B^2 \cdot N_u + C^2 \cdot N_u)}}$$

1, 2, 3:

$$\frac{N_u \cdot (A + C)^2 \cdot \sqrt{(N_u \cdot A^2 + A \cdot B^2 + 2 \cdot N_u \cdot A \cdot C + B^2 \cdot C - N_u \cdot B^2 + N_u \cdot C^2)^2}}{\sqrt{N_u^2 \cdot (A + C)^4 \cdot (N_u \cdot A^2 + A \cdot B^2 + 2 \cdot N_u \cdot A \cdot C + B^2 \cdot C - N_u \cdot B^2 + N_u \cdot C^2)}}$$



Unit. $AB := 1$ Given. $N_1 := .53981$ $N_2 := 2.38980$ $N_3 := 1.53249$
 $N_4 := .93929$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$$\frac{\sqrt{N_u \cdot (A + C)}}{\sqrt{B \cdot \sqrt{A \cdot N_u - N_u^2 + C \cdot N_u + (A + C) \cdot (D - N_u)}}} = 1.92607$$

$Num := \frac{\sqrt{N_u \cdot (A + C)}}{\sqrt{[\sqrt{N_u \cdot (A + C)}]^2}}$

$Den := \frac{\sqrt{B \cdot \sqrt{A \cdot N_u - N_u^2 + C \cdot N_u + (A + C) \cdot (D - N_u)}}}{\sqrt{[\sqrt{B \cdot \sqrt{A \cdot N_u - N_u^2 + C \cdot N_u + (A + C) \cdot (D - N_u)}}]^2}}$

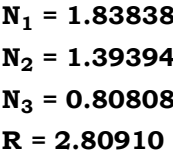
$L := \frac{Num}{Den}$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$1 = 1$

$L - 1 = 0$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{C})}{\mathbf{B} \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N_u})}} = 2.809098$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C})}{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C})]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})}}{\sqrt{[\mathbf{B} \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})}]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C}) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})}}{\mathbf{B} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{C})^2} \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u}{\sqrt{N_u^2}}$$

1, 0, 0:

$$\frac{N_u \cdot (A + 1)}{\sqrt{N_u^2 \cdot (A + 1)^2}}$$

0, 2, 0:

$$\frac{N_u \cdot \sqrt{-B^2 \cdot N_u \cdot (N_u - 2)}}{B \cdot \sqrt{N_u^2} \cdot \sqrt{-N_u \cdot (N_u - 2)}}$$

1, 2, 0:

$$\frac{N_u \cdot (A + 1) \cdot \sqrt{B^2 \cdot N_u \cdot (A - N_u + 1)}}{B \cdot \sqrt{N_u \cdot (A - N_u + 1)} \cdot \sqrt{N_u^2 \cdot (A + 1)^2}}$$

0, 0, 3:

$$\frac{N_u \cdot (C + 1)}{\sqrt{N_u^2 \cdot (C + 1)^2}}$$

1, 0, 3:

$$\frac{N_u \cdot (A + C)}{\sqrt{N_u^2 \cdot (A + C)^2}}$$

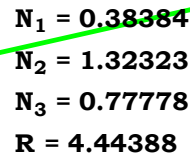
0, 2, 3:

$$\frac{N_u \cdot (C + 1) \cdot \sqrt{B^2 \cdot N_u \cdot (C - N_u + 1)}}{B \cdot \sqrt{N_u \cdot (C - N_u + 1)} \cdot \sqrt{N_u^2 \cdot (C + 1)^2}}$$

1, 2, 3:

$$\frac{N_u \cdot (A + C) \cdot \sqrt{B^2 \cdot N_u \cdot (A + C - N_u)}}{B \cdot \sqrt{N_u^2 \cdot (A + C)^2} \cdot \sqrt{N_u \cdot (A + C - N_u)}}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{Den} := \frac{\mathbf{B}^2 \cdot (\mathbf{A} + \mathbf{C}) \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})}}{\sqrt{\left[\mathbf{B}^2 \cdot (\mathbf{A} + \mathbf{C}) \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})} \right]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \left(\mathbf{N}_{\mathbf{u}} \cdot \mathbf{A}^2 + \mathbf{A} \cdot \mathbf{B}^2 + 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A} \cdot \mathbf{C} + \mathbf{B}^2 \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot \mathbf{B}^2 + \mathbf{N}_{\mathbf{u}} \cdot \mathbf{C}^2 \right) \cdot \sqrt{\mathbf{B}^4 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C})^2 \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})}}{\mathbf{B}^2 \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot \left[\mathbf{B}^2 \cdot (\mathbf{A} + \mathbf{C}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B} + \mathbf{C}) \cdot (\mathbf{A} + \mathbf{B} + \mathbf{C}) \right]^2 \cdot (\mathbf{A} + \mathbf{C}) \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})}}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u \cdot (3 \cdot N_u + 2)}{\sqrt{N_u^2 \cdot (3 \cdot N_u + 2)^2}}$
1, 0, 0:	$\frac{N_u \cdot \sqrt{N_u \cdot (A + 1)^2 \cdot (A - N_u + 1)} \cdot (A + 2 \cdot A \cdot N_u + A^2 \cdot N_u + 1)}{(A + 1) \cdot \sqrt{N_u^2 \cdot [A + A \cdot N_u \cdot (A + 2) + 1]^2} \cdot \sqrt{N_u \cdot (A - N_u + 1)}}$
0, 2, 0:	$\frac{N_u \cdot (4 \cdot N_u + 2 \cdot B^2 - B^2 \cdot N_u) \cdot \sqrt{-B^4 \cdot N_u \cdot (N_u - 2)}}{B^2 \cdot \sqrt{N_u^2 \cdot [2 \cdot B^2 - N_u \cdot (B - 2) \cdot (B + 2)]^2} \cdot \sqrt{-N_u \cdot (N_u - 2)}}$
1, 2, 0:	$\frac{N_u \cdot \sqrt{B^4 \cdot N_u \cdot (A + 1)^2 \cdot (A - N_u + 1)} \cdot (N_u + B^2 + 2 \cdot A \cdot N_u + A \cdot B^2 + A^2 \cdot N_u - B^2 \cdot N_u)}{B^2 \cdot (A + 1) \cdot \sqrt{N_u^2 \cdot [B^2 \cdot (A + 1) + N_u \cdot (A + B + 1) \cdot (A - B + 1)]^2} \cdot \sqrt{N_u \cdot (A - N_u + 1)}}$
0, 0, 3:	$\frac{N_u \cdot \sqrt{N_u \cdot (C + 1)^2 \cdot (C - N_u + 1)} \cdot (C + 2 \cdot C \cdot N_u + C^2 \cdot N_u + 1)}{(C + 1) \cdot \sqrt{N_u^2 \cdot [C + C \cdot N_u \cdot (C + 2) + 1]^2} \cdot \sqrt{N_u \cdot (C - N_u + 1)}}$
1, 0, 3:	$\frac{N_u \cdot \sqrt{N_u \cdot (A + C)^2 \cdot (A + C - N_u)} \cdot (N_u \cdot A^2 + 2 \cdot N_u \cdot A \cdot C + A + N_u \cdot C^2 + C - N_u)}{(A + C) \cdot \sqrt{N_u^2 \cdot [A + C + N_u \cdot (A + C - 1) \cdot (A + C + 1)]^2} \cdot \sqrt{N_u \cdot (A + C - N_u)}}$
0, 2, 3:	$\frac{N_u \cdot \sqrt{B^4 \cdot N_u \cdot (C + 1)^2 \cdot (C - N_u + 1)} \cdot (N_u + B^2 + 2 \cdot C \cdot N_u + B^2 \cdot C - B^2 \cdot N_u + C^2 \cdot N_u)}{B^2 \cdot (C + 1) \cdot \sqrt{N_u^2 \cdot [B^2 \cdot (C + 1) + N_u \cdot (B + C + 1) \cdot (C - B + 1)]^2} \cdot \sqrt{N_u \cdot (C - N_u + 1)}}$
1, 2, 3:	$\frac{N_u \cdot (N_u \cdot A^2 + A \cdot B^2 + 2 \cdot N_u \cdot A \cdot C + B^2 \cdot C - N_u \cdot B^2 + N_u \cdot C^2) \cdot \sqrt{B^4 \cdot N_u \cdot (A + C)^2 \cdot (A + C - N_u)}}{B^2 \cdot \sqrt{N_u^2 \cdot [B^2 \cdot (A + C) + N_u \cdot (A - B + C) \cdot (A + B + C)]^2} \cdot (A + C) \cdot \sqrt{N_u \cdot (A + C - N_u)}}$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\frac{N_u \cdot [B \cdot \sqrt{N_u \cdot (A + C - N_u)} + C^2 + A \cdot C]}{B^2 \cdot \sqrt{N_u \cdot (A + C - N_u)}} = 5.626069$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot \left[\mathbf{B} \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N_u})} + \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{C} \right]}{\sqrt{\left[\mathbf{N_u} \cdot \left[\mathbf{B} \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N_u})} + \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{C} \right] \right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B}^2 \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})}}{\sqrt{\left[\mathbf{B}^2 \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N}_{\mathbf{u}})} \right]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N_u} \cdot [\mathbf{B} \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N_u})} + \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{C}] \cdot \sqrt{\mathbf{B}^4 \cdot \mathbf{N_u} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N_u})}}{\mathbf{B}^2 \cdot \sqrt{\mathbf{N_u}^2 \cdot [\mathbf{B} \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N_u})} + \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{C}]^2 \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{C} - \mathbf{N_u})}}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u \cdot \left[\sqrt{-N_u \cdot (N_u - 2)} + 2 \right]}{\sqrt{N_u^2 \cdot \left[\sqrt{-N_u \cdot (N_u - 2)} + 2 \right]^2}}$$

1, 0, 0:

$$\frac{N_u \cdot \left[A + \sqrt{N_u \cdot (A - N_u + 1)} + 1 \right]}{\sqrt{N_u^2 \cdot \left[A + \sqrt{N_u \cdot (A - N_u + 1)} + 1 \right]^2}}$$

0, 2, 0:

$$\frac{N_u \cdot \left[B \cdot \sqrt{-N_u \cdot (N_u - 2)} + 2 \right] \cdot \sqrt{-B^4 \cdot N_u \cdot (N_u - 2)}}{B^2 \cdot \sqrt{N_u^2 \cdot \left[B \cdot \sqrt{-N_u \cdot (N_u - 2)} + 2 \right]^2 \cdot \sqrt{-N_u \cdot (N_u - 2)}}}$$

1, 2, 0:

$$\frac{N_u \cdot \sqrt{B^4 \cdot N_u \cdot (A - N_u + 1)} \cdot \left[A + B \cdot \sqrt{N_u \cdot (A - N_u + 1)} + 1 \right]}{B^2 \cdot \sqrt{N_u^2 \cdot \left[A + B \cdot \sqrt{N_u \cdot (A - N_u + 1)} + 1 \right]^2 \cdot \sqrt{N_u \cdot (A - N_u + 1)}}}$$

0, 0, 3:

$$\frac{N_u \cdot \left[C + \sqrt{N_u \cdot (C - N_u + 1)} + C^2 \right]}{\sqrt{N_u^2 \cdot \left[C + \sqrt{N_u \cdot (C - N_u + 1)} + C^2 \right]^2}}$$

1, 0, 3:

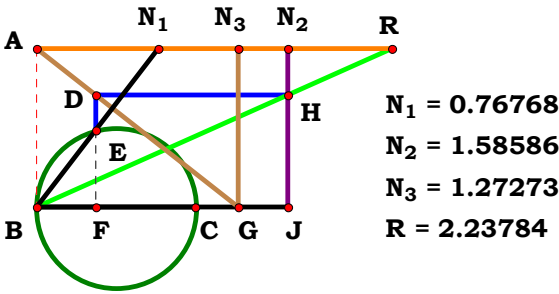
$$\frac{N_u \cdot \left[C^2 + \sqrt{N_u \cdot (A + C - N_u)} + A \cdot C \right]}{\sqrt{N_u^2 \cdot \left[C^2 + \sqrt{N_u \cdot (A + C - N_u)} + A \cdot C \right]^2}}$$

0, 2, 3:

$$\frac{N_u \cdot \left[C + C^2 + B \cdot \sqrt{N_u \cdot (C - N_u + 1)} \right] \cdot \sqrt{B^4 \cdot N_u \cdot (C - N_u + 1)}}{B^2 \cdot \sqrt{N_u \cdot (C - N_u + 1)} \cdot \sqrt{N_u^2 \cdot \left[C + C^2 + B \cdot \sqrt{N_u \cdot (C - N_u + 1)} \right]^2}}$$

1, 2, 3:

$$\frac{N_u \cdot \left[B \cdot \sqrt{N_u \cdot (A + C - N_u)} + C^2 + A \cdot C \right] \cdot \sqrt{B^4 \cdot N_u \cdot (A + C - N_u)}}{B^2 \cdot \sqrt{N_u^2 \cdot \left[B \cdot \sqrt{N_u \cdot (A + C - N_u)} + C^2 + A \cdot C \right]^2 \cdot \sqrt{N_u \cdot (A + C - N_u)}}}$$



Unit. $AB := 1$ Given. $N_1 := .76768$ $N_2 := 1.58586$ $N_3 := 1.27273$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A^2 + N_u^2)}{B \cdot (A^2 + N_u^2 - C \cdot N_u)} = 2.237849$$

$$Num := \frac{N_u \cdot (A^2 + N_u^2)}{\sqrt{[N_u \cdot (A^2 + N_u^2)]^2}}$$

$$Den := \frac{B \cdot (A^2 + N_u^2 - C \cdot N_u)}{\sqrt{[B \cdot (A^2 + N_u^2 - C \cdot N_u)]^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot (A^2 + N_u^2 - C \cdot N_u)^2} \cdot (A^2 + N_u^2)}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2} \cdot (A^2 + N_u^2 - C \cdot N_u)} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u \cdot (N_u^2 + 1) \cdot \sqrt{(N_u^2 - N_u + 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - N_u + 1)}}$$

1, 0, 0:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 + N_u^2 - N_u)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 + N_u^2 - N_u)}}$$

0, 2, 0:

$$\frac{N_u \cdot \sqrt{B^2 \cdot (N_u^2 - N_u + 1)^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - N_u + 1)}}$$

1, 2, 0:

$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{B^2 \cdot (A^2 + N_u^2 - N_u)^2}}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 + N_u^2 - N_u)}}$$

0, 0, 3:

$$\frac{N_u \cdot \sqrt{(N_u^2 - C \cdot N_u + 1)^2} \cdot (N_u^2 + 1)}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - C \cdot N_u + 1)}}$$

1, 0, 3:

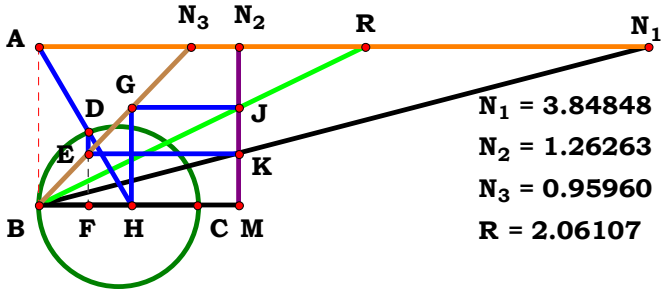
$$\frac{N_u \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 + N_u^2 - C \cdot N_u)^2}}{\sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 + N_u^2 - C \cdot N_u)}}$$

0, 2, 3:

$$\frac{N_u \cdot \sqrt{B^2 \cdot (N_u^2 - C \cdot N_u + 1)^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - C \cdot N_u + 1)}}$$

1, 2, 3:

$$\frac{N_u \cdot \sqrt{B^2 \cdot (A^2 + N_u^2 - C \cdot N_u)^2} \cdot (A^2 + N_u^2)}{B \cdot \sqrt{N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A^2 + N_u^2 - C \cdot N_u)}}$$



Unit. $AB := 1$ Given. $N_1 := 3.84848$ $N_2 := 1.26263$ $N_3 := .95960$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u \cdot \left[B \cdot C - \sqrt{N_u \cdot A \cdot (B \cdot C - A \cdot N_u)} \right]}{A \cdot B \cdot C} = 2.06106 \qquad \text{Num} := \frac{N_u \cdot \left[B \cdot C - \sqrt{N_u \cdot A \cdot (B \cdot C - A \cdot N_u)} \right]}{\sqrt{\left[N_u \cdot \left[B \cdot C - \sqrt{N_u \cdot A \cdot (B \cdot C - A \cdot N_u)} \right] \right]^2}} \qquad \text{Den} := \frac{A \cdot B \cdot C}{\sqrt{(A \cdot B \cdot C)^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{N_u \cdot \left[B \cdot C - \sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)} \right] \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot \left[\sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)} - B \cdot C \right]^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$-\frac{N_u \cdot \left[\sqrt{-N_u \cdot (N_u - 1)} - 1 \right]}{\sqrt{N_u^2 \cdot \left[\sqrt{-N_u \cdot (N_u - 1)} - 1 \right]^2}}$$

1, 0, 0:

$$-\frac{N_u \cdot \sqrt{A^2} \cdot \left[\sqrt{-A \cdot N_u \cdot (A \cdot N_u - 1)} - 1 \right]}{A \cdot \sqrt{N_u^2 \cdot \left[\sqrt{-A \cdot N_u \cdot (A \cdot N_u - 1)} - 1 \right]^2}}$$

0, 2, 0:

$$\frac{N_u \cdot \sqrt{B^2} \cdot \left[B - \sqrt{N_u \cdot (B - N_u)} \right]}{B \cdot \sqrt{N_u^2 \cdot \left[B - \sqrt{N_u \cdot (B - N_u)} \right]^2}}$$

1, 2, 0:

$$\frac{N_u \cdot \sqrt{A^2 \cdot B^2} \cdot \left[B - \sqrt{A \cdot N_u \cdot (B - A \cdot N_u)} \right]}{A \cdot B \cdot \sqrt{N_u^2 \cdot \left[B - \sqrt{A \cdot N_u \cdot (B - A \cdot N_u)} \right]^2}}$$

0, 0, 3:

$$\frac{N_u \cdot \sqrt{C^2} \cdot \left[C - \sqrt{N_u \cdot (C - N_u)} \right]}{C \cdot \sqrt{N_u^2 \cdot \left[C - \sqrt{N_u \cdot (C - N_u)} \right]^2}}$$

1, 0, 3:

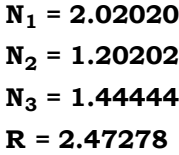
$$\frac{N_u \cdot \sqrt{A^2 \cdot C^2} \cdot \left[C - \sqrt{A \cdot N_u \cdot (C - A \cdot N_u)} \right]}{A \cdot C \cdot \sqrt{N_u^2 \cdot \left[C - \sqrt{A \cdot N_u \cdot (C - A \cdot N_u)} \right]^2}}$$

0, 2, 3:

$$-\frac{N_u \cdot \sqrt{B^2 \cdot C^2} \cdot \left[\sqrt{-N_u \cdot (N_u - B \cdot C)} - B \cdot C \right]}{B \cdot C \cdot \sqrt{N_u^2 \cdot \left[\sqrt{-N_u \cdot (N_u - B \cdot C)} - B \cdot C \right]^2}}$$

1, 2, 3:

$$\frac{N_u \cdot \left[B \cdot C - \sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)} \right] \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot \left[\sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)} - B \cdot C \right]^2}}$$



$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_u}}{\sqrt{(\sqrt{\mathbf{A} \cdot \mathbf{N}_u})^2}}$$

$$\mathbf{Den} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})}}{\sqrt{\left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})}\right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

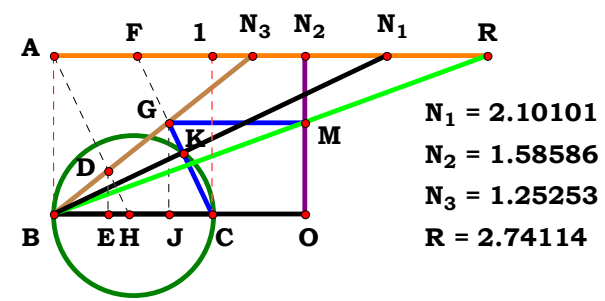
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_u}}{\sqrt{\mathbf{A} \cdot \mathbf{N}_u^2}} = \mathbf{0}$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 3:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$	1, 0, 3:	$\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$
0, 2, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 2, 3:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 2, 0:	$\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$	1, 2, 3:	$\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}}$



Unit. AB := 1 Given. $N_1 := 2.10101$ $N_2 := 1.58586$ $N_3 := 1.25253$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{N_u^2 + A \cdot C}{B \cdot C} = 2.741146$$

$$\mathbf{Num} := \frac{\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C}}{\sqrt{(\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C})^2}} \quad \mathbf{Den} := \frac{\mathbf{B} \cdot \mathbf{C}}{\sqrt{(\mathbf{B} \cdot \mathbf{C})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

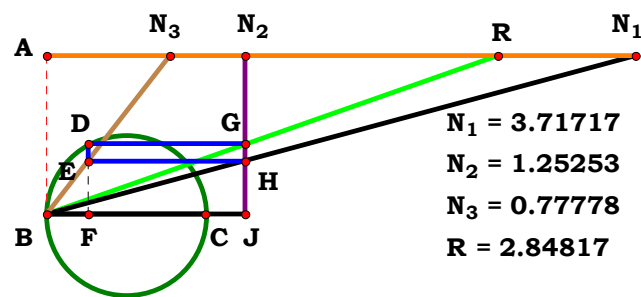
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2} \cdot (\mathbf{N}_u^2 + \mathbf{A} \cdot \mathbf{C})}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{(\mathbf{N}_u^2 + \mathbf{A} \cdot \mathbf{C})^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{\mathbf{N_u}^2 + 1}{\sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$	0, 0, 3:	$\frac{\sqrt{\mathbf{C}^2} \cdot \left(\mathbf{N_u}^2 + \mathbf{C}\right)}{\mathbf{C} \cdot \sqrt{\left(\mathbf{N_u}^2 + \mathbf{C}\right)^2}}$
1, 0, 0:	$\frac{\mathbf{N_u}^2 + \mathbf{A}}{\sqrt{\left(\mathbf{N_u}^2 + \mathbf{A}\right)^2}}$	1, 0, 3:	$\frac{\sqrt{\mathbf{C}^2} \cdot \left(\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C}\right)}{\mathbf{C} \cdot \sqrt{\left(\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C}\right)^2}}$
0, 2, 0:	$\frac{\sqrt{\mathbf{B}^2} \cdot \left(\mathbf{N_u}^2 + 1\right)}{\mathbf{B} \cdot \sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$	0, 2, 3:	$\frac{\sqrt{\mathbf{B}^2} \cdot \mathbf{C}^2 \cdot \left(\mathbf{N_u}^2 + \mathbf{C}\right)}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\left(\mathbf{N_u}^2 + \mathbf{C}\right)^2}}$
1, 2, 0:	$\frac{\sqrt{\mathbf{B}^2} \cdot \left(\mathbf{N_u}^2 + \mathbf{A}\right)}{\mathbf{B} \cdot \sqrt{\left(\mathbf{N_u}^2 + \mathbf{A}\right)^2}}$	1, 2, 3:	$\frac{\sqrt{\mathbf{B}^2} \cdot \mathbf{C}^2 \cdot \left(\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C}\right)}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\left(\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C}\right)^2}}$



Unit. AB := 1 Given. $N_1 := 3.71717$ $N_2 := 1.25253$ $N_3 := .77778$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})}} = 2.848177 \quad \text{Num} := \frac{\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})^2}} \quad \text{Den} := \frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})}}{\sqrt{\left[\sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})}\right]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

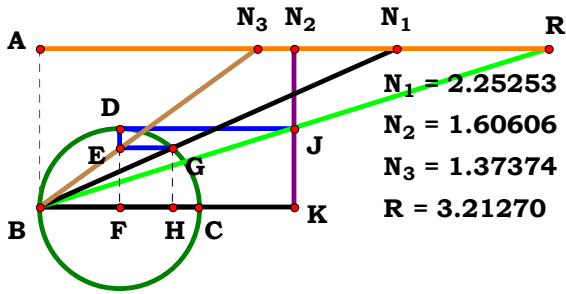
Num = 1 Den = 1 L = 1

$$L - \frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 0, 3:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$
1, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	1, 0, 3:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$
0, 2, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	0, 2, 3:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$
1, 2, 0:	$\frac{N_u}{\sqrt{N_u^2}}$	1, 2, 3:	$\frac{C \cdot N_u}{\sqrt{C^2 \cdot N_u^2}}$



Unit. $AB := 1$ Given. $N_1 := 2.25253$ $N_2 := 1.60606$ $N_3 := 1.37374$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{C \cdot (A^2 + N_u^2)}{B \cdot \sqrt{A \cdot (C \cdot A^2 - A \cdot N_u^2 + C \cdot N_u^2)}} = 3.212695$$

$$Num := \frac{C \cdot (A^2 + N_u^2)}{\sqrt{[C \cdot (A^2 + N_u^2)]^2}}$$

$$Den := \frac{B \cdot \sqrt{A \cdot (C \cdot A^2 - A \cdot N_u^2 + C \cdot N_u^2)}}{\sqrt{[B \cdot \sqrt{A \cdot (C \cdot A^2 - A \cdot N_u^2 + C \cdot N_u^2)}]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{C \cdot (A^2 + N_u^2) \cdot \sqrt{A \cdot B^2 \cdot (C \cdot A^2 - A \cdot N_u^2 + C \cdot N_u^2)}}{B \cdot \sqrt{C^2 \cdot (A^2 + N_u^2)^2} \cdot \sqrt{A \cdot (C \cdot A^2 - A \cdot N_u^2 + C \cdot N_u^2)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{\mathbf{N_u}^2 + 1}{\sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$$

1, 0, 0:

$$\frac{\mathbf{A}^2 + \mathbf{N_u}^2}{\sqrt{\left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2}}$$

0, 2, 0:

$$\frac{\sqrt{\mathbf{B}^2 \cdot \left(\mathbf{N_u}^2 + 1\right)}}{\mathbf{B} \cdot \sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$$

1, 2, 0:

$$\frac{\left(\mathbf{A}^2 + \mathbf{N_u}^2\right) \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}^2 \cdot \left(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N_u}^2 + \mathbf{N_u}^2\right)}}{\mathbf{B} \cdot \sqrt{\mathbf{A} \cdot \left(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N_u}^2 + \mathbf{N_u}^2\right)} \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2}}$$

0, 0, 3:

$$\frac{\mathbf{C} \cdot \left(\mathbf{N_u}^2 + 1\right)}{\sqrt{\mathbf{C}^2 \cdot \left(\mathbf{N_u}^2 + 1\right)^2}}$$

1, 0, 3:

$$\frac{\mathbf{C} \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2\right)}{\sqrt{\mathbf{C}^2 \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2}}$$

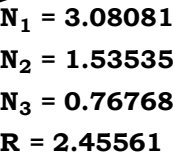
0, 2, 3:

$$\frac{\mathbf{C} \cdot \sqrt{\mathbf{B}^2 \cdot \left(\mathbf{C} - \mathbf{N_u}^2 + \mathbf{C} \cdot \mathbf{N_u}^2\right)} \cdot \left(\mathbf{N_u}^2 + 1\right)}{\mathbf{B} \cdot \sqrt{\mathbf{C}^2 \cdot \left(\mathbf{N_u}^2 + 1\right)^2} \cdot \sqrt{\mathbf{C} - \mathbf{N_u}^2 + \mathbf{C} \cdot \mathbf{N_u}^2}}$$

1, 2, 3:

$$\frac{\mathbf{C} \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2\right) \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}^2 \cdot \left(\mathbf{C} \cdot \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N_u}^2 + \mathbf{C} \cdot \mathbf{N_u}^2\right)}}{\mathbf{B} \cdot \sqrt{\mathbf{C}^2 \cdot \left(\mathbf{A}^2 + \mathbf{N_u}^2\right)^2} \cdot \sqrt{\mathbf{A} \cdot \left(\mathbf{C} \cdot \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N_u}^2 + \mathbf{C} \cdot \mathbf{N_u}^2\right)}}$$

30BT7R5


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$
$$\frac{A^2 - A \cdot N_u + N_u^2 + C \cdot N_u}{B \cdot C} = 2.455609$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot \mathbf{C}}{\sqrt{(\mathbf{B} \cdot \mathbf{C})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2 + \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{(\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2 + \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})^2}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{N_u^2 + 1}{\sqrt{(N_u^2 + 1)^2}}$$

1, 0, 0:

$$\frac{A^2 - A \cdot N_u + N_u^2 + N_u}{\sqrt{(A^2 - A \cdot N_u + N_u^2 + N_u)^2}}$$

0, 2, 0:

$$\frac{\sqrt{B^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{(N_u^2 + 1)^2}}$$

1, 2, 0:

$$\frac{\sqrt{B^2} \cdot (A^2 - A \cdot N_u + N_u^2 + N_u)}{B \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2 + N_u)^2}}$$

0, 0, 3:

$$\frac{\sqrt{C^2} \cdot (N_u^2 - N_u + C \cdot N_u + 1)}{C \cdot \sqrt{(N_u^2 - N_u + C \cdot N_u + 1)^2}}$$

1, 0, 3:

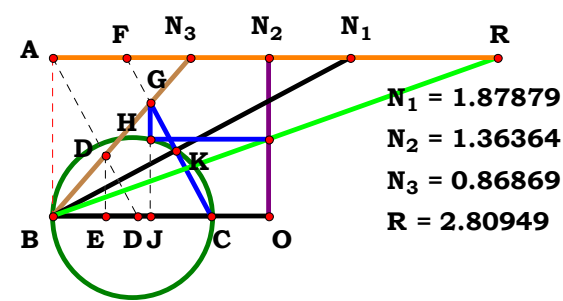
$$\frac{\sqrt{C^2} \cdot (A^2 - A \cdot N_u + N_u^2 + C \cdot N_u)}{C \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u)^2}}$$

0, 2, 3:

$$\frac{\sqrt{B^2 \cdot C^2} \cdot (N_u^2 - N_u + C \cdot N_u + 1)}{B \cdot C \cdot \sqrt{(N_u^2 - N_u + C \cdot N_u + 1)^2}}$$

1, 2, 3:

$$\frac{\sqrt{B^2 \cdot C^2} \cdot (A^2 - A \cdot N_u + N_u^2 + C \cdot N_u)}{B \cdot C \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u)^2}}$$



Unit. **AB** := 1 Given. **N₁** := 1.87879 **N₂** := 1.36364 **N₃** := .86869

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$

Descriptions.

$$\frac{\sqrt{A \cdot C} \cdot (N_u^2 + A \cdot C)}{A \cdot B \cdot C} = 2.809495$$

$$Num := \frac{\sqrt{A \cdot C} \cdot (N_u^2 + A \cdot C)}{\sqrt{\left[\sqrt{A \cdot C} \cdot (N_u^2 + A \cdot C)\right]^2}}$$

$$Den := \frac{A \cdot B \cdot C}{\sqrt{(A \cdot B \cdot C)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$L - \frac{\sqrt{A \cdot C} \cdot (N_u^2 + A \cdot C) \cdot \sqrt{A^2 \cdot B^2 \cdot C^2}}{A \cdot B \cdot C \cdot \sqrt{A \cdot C} \cdot (N_u^2 + A \cdot C)^2} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:

$$\frac{\mathbf{N_u}^2 + 1}{\sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$$

1, 0, 0:

$$\frac{\sqrt{\mathbf{A}^2} \cdot \left(\mathbf{N_u}^2 + \mathbf{A}\right)}{\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot \left(\mathbf{N_u}^2 + \mathbf{A}\right)^2}}$$

0, 2, 0:

$$\frac{\sqrt{\mathbf{B}^2} \cdot \left(\mathbf{N_u}^2 + 1\right)}{\mathbf{B} \cdot \sqrt{\left(\mathbf{N_u}^2 + 1\right)^2}}$$

1, 2, 0:

$$\frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2} \cdot \left(\mathbf{N_u}^2 + \mathbf{A}\right)}{\sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{\mathbf{A} \cdot \left(\mathbf{N_u}^2 + \mathbf{A}\right)^2}}$$

0, 0, 3:

$$\frac{\sqrt{\mathbf{C}^2} \cdot \left(\mathbf{N_u}^2 + \mathbf{C}\right)}{\sqrt{\mathbf{C}} \cdot \sqrt{\mathbf{C} \cdot \left(\mathbf{N_u}^2 + \mathbf{C}\right)^2}}$$

1, 0, 3:

$$\frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C}} \cdot \left(\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C}\right)}{\mathbf{A} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C} \cdot \left(\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C}\right)^2}}$$

0, 2, 3:

$$\frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2} \cdot \left(\mathbf{N_u}^2 + \mathbf{C}\right)}{\mathbf{B} \cdot \sqrt{\mathbf{C}} \cdot \sqrt{\mathbf{C} \cdot \left(\mathbf{N_u}^2 + \mathbf{C}\right)^2}}$$

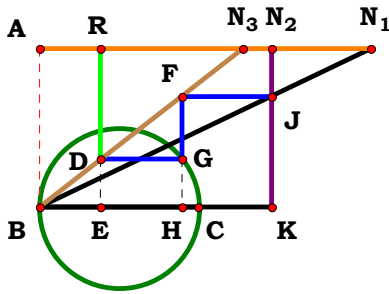
1, 2, 3:

$$\frac{\sqrt{\mathbf{A} \cdot \mathbf{C}} \cdot \left(\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C}\right) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{B}^2 \cdot \mathbf{C}^2}}{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C} \cdot \left(\mathbf{N_u}^2 + \mathbf{A} \cdot \mathbf{C}\right)^2}}$$



30BT7R7

Descriptions.



$N_1 = 2.09091$
 $N_2 = 1.46465$
 $N_3 = 1.28283$
 $R = 0.38723$

Unit. $AB := 1$ Given. $N_1 := 2.09091$ $N_2 := 1.46465$ $N_3 := 1.28283$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

$$\frac{N_u \cdot \sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)}}{B \cdot C^2} = 0.387228$$

$$Num := \frac{N_u \cdot \sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)}}{\sqrt{\left[N_u \cdot \sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)}\right]^2}}$$

$$Den := \frac{B \cdot C^2}{\sqrt{(B \cdot C^2)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

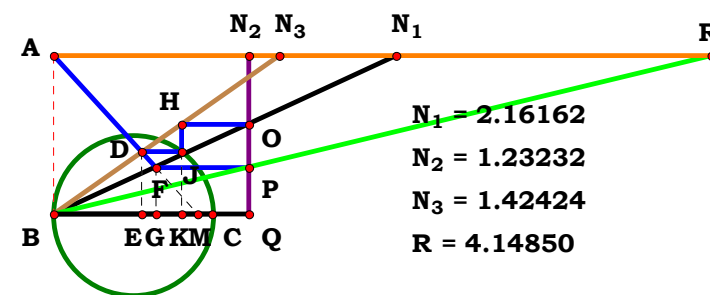
$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot C^4} \cdot \sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)}}{B \cdot C^2 \cdot \sqrt{A \cdot N_u^3 \cdot (B \cdot C - A \cdot N_u)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u \cdot \sqrt{-N_u \cdot (N_u - 1)}}{\sqrt{-N_u^3 \cdot (N_u - 1)}}$	0, 0, 3:	$\frac{N_u \cdot \sqrt{C^4} \cdot \sqrt{N_u \cdot (C - N_u)}}{C^2 \cdot \sqrt{N_u^3 \cdot (C - N_u)}}$
1, 0, 0:	$\frac{N_u \cdot \sqrt{-A \cdot N_u \cdot (A \cdot N_u - 1)}}{\sqrt{-A \cdot N_u^3 \cdot (A \cdot N_u - 1)}}$	1, 0, 3:	$\frac{N_u \cdot \sqrt{C^4} \cdot \sqrt{A \cdot N_u \cdot (C - A \cdot N_u)}}{C^2 \cdot \sqrt{A \cdot N_u^3 \cdot (C - A \cdot N_u)}}$
0, 2, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot \sqrt{N_u \cdot (B - N_u)}}{B \cdot \sqrt{N_u^3 \cdot (B - N_u)}}$	0, 2, 3:	$\frac{N_u \cdot \sqrt{B^2 \cdot C^4} \cdot \sqrt{-N_u \cdot (N_u - B \cdot C)}}{B \cdot C^2 \cdot \sqrt{-N_u^3 \cdot (N_u - B \cdot C)}}$
1, 2, 0:	$\frac{N_u \cdot \sqrt{B^2} \cdot \sqrt{A \cdot N_u \cdot (B - A \cdot N_u)}}{B \cdot \sqrt{A \cdot N_u^3 \cdot (B - A \cdot N_u)}}$	1, 2, 3:	$\frac{N_u \cdot \sqrt{B^2 \cdot C^4} \cdot \sqrt{A \cdot N_u \cdot (B \cdot C - A \cdot N_u)}}{B \cdot C^2 \cdot \sqrt{A \cdot N_u^3 \cdot (B \cdot C - A \cdot N_u)}}$



Unit. AB := 1 Given. $N_1 := 2.16162$ $N_2 := 1.23232$ $N_3 := 1.42424$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{N_u \cdot \left[\sqrt{A \cdot B \cdot C \cdot N_u - A^2 \cdot N_u^2} \cdot (A - C) + B \cdot C^2 \right]}{A \cdot B \cdot \sqrt{A \cdot (B \cdot C \cdot N_u - A \cdot N_u^2)}} = 4.148451$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot \left[\sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u} - \mathbf{A}^2 \cdot \mathbf{N_u}^2} \cdot (\mathbf{A} - \mathbf{C}) + \mathbf{B} \cdot \mathbf{C}^2 \right]}{\sqrt{\left[\mathbf{N_u} \cdot \left[\sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u} - \mathbf{A}^2 \cdot \mathbf{N_u}^2} \cdot (\mathbf{A} - \mathbf{C}) + \mathbf{B} \cdot \mathbf{C}^2 \right] \right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{\mathbf{A} \cdot (\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2)}}{\sqrt{\left[\mathbf{A} \cdot \mathbf{B} \cdot \sqrt{\mathbf{A} \cdot (\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2)} \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

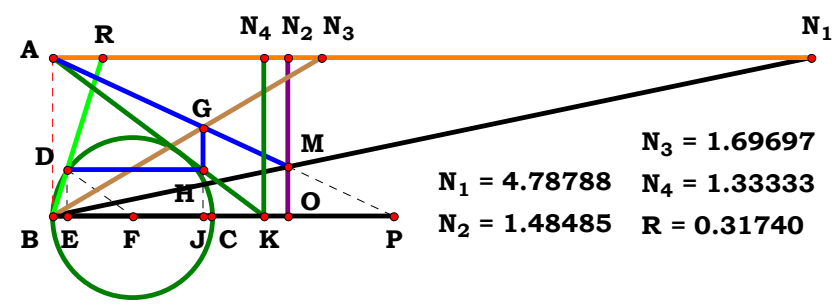
Num = 1 Den = 1 L = 1

$$L = \frac{N_u \cdot \left(A \cdot \sqrt{A \cdot B \cdot C \cdot N_u - A^2 \cdot N_u^2} - C \cdot \sqrt{A \cdot B \cdot C \cdot N_u - A^2 \cdot N_u^2 + B \cdot C^2} \right) \cdot \sqrt{-A^3 \cdot B^2 \cdot (A \cdot N_u^2 - B \cdot C \cdot N_u)}}{A \cdot B \cdot \sqrt{N_u^2} \cdot \left[\sqrt{A \cdot B \cdot C \cdot N_u - A^2 \cdot N_u^2} \cdot (A - C) + B \cdot C^2 \right]^2 \cdot \sqrt{-A \cdot (A \cdot N_u^2 - B \cdot C \cdot N_u)}} = 0$$



For 3 variables there are 8 subsets.

0, 0, 0:	$\frac{N_u}{\sqrt{N_u^2}}$
1, 0, 0:	$\frac{N_u \cdot \sqrt{A^3 \cdot (N_u - A \cdot N_u^2)} \cdot \left(A \cdot \sqrt{A \cdot N_u - A^2 \cdot N_u^2} - \sqrt{A \cdot N_u - A^2 \cdot N_u^2 + 1} \right)}{A \cdot \sqrt{A \cdot (N_u - A \cdot N_u^2)} \cdot \sqrt{N_u^2 \cdot \left[(A - 1) \cdot \sqrt{A \cdot N_u - A^2 \cdot N_u^2 + 1} \right]^2}}$
0, 2, 0:	$\frac{N_u \cdot \sqrt{-B^2 \cdot (N_u^2 - B \cdot N_u)}}{\sqrt{B^2 \cdot N_u^2} \cdot \sqrt{B \cdot N_u - N_u^2}}$
1, 2, 0:	$\frac{N_u \cdot \sqrt{A^3 \cdot B^2 \cdot (B \cdot N_u - A \cdot N_u^2)} \cdot \left(B + A \cdot \sqrt{A \cdot B \cdot N_u - A^2 \cdot N_u^2} - \sqrt{A \cdot B \cdot N_u - A^2 \cdot N_u^2} \right)}{A \cdot B \cdot \sqrt{A \cdot (B \cdot N_u - A \cdot N_u^2)} \cdot \sqrt{N_u^2 \cdot \left[B + \sqrt{A \cdot B \cdot N_u - A^2 \cdot N_u^2} \cdot (A - 1) \right]^2}}$
0, 0, 3:	$\frac{N_u \cdot \left(C^2 - C \cdot \sqrt{C \cdot N_u - N_u^2} + \sqrt{C \cdot N_u - N_u^2} \right)}{\sqrt{N_u^2 \cdot \left[C^2 - (C - 1) \cdot \sqrt{C \cdot N_u - N_u^2} \right]^2}}$
1, 0, 3:	$\frac{N_u \cdot \sqrt{A^3 \cdot (C \cdot N_u - A \cdot N_u^2)} \cdot \left(C^2 + A \cdot \sqrt{A \cdot C \cdot N_u - A^2 \cdot N_u^2} - C \cdot \sqrt{A \cdot C \cdot N_u - A^2 \cdot N_u^2} \right)}{A \cdot \sqrt{A \cdot (C \cdot N_u - A \cdot N_u^2)} \cdot \sqrt{N_u^2 \cdot \left[C^2 + \sqrt{A \cdot C \cdot N_u - A^2 \cdot N_u^2} \cdot (A - C) \right]^2}}$
0, 2, 3:	$\frac{N_u \cdot \sqrt{-B^2 \cdot (N_u^2 - B \cdot C \cdot N_u)} \cdot \left(\sqrt{B \cdot C \cdot N_u - N_u^2} - C \cdot \sqrt{B \cdot C \cdot N_u - N_u^2} + B \cdot C^2 \right)}{B \cdot \sqrt{N_u^2 \cdot \left[(C - 1) \cdot \sqrt{B \cdot C \cdot N_u - N_u^2} - B \cdot C^2 \right]^2} \cdot \sqrt{B \cdot C \cdot N_u - N_u^2}}$
1, 2, 3:	$\frac{N_u \cdot \left(A \cdot \sqrt{A \cdot B \cdot C \cdot N_u - A^2 \cdot N_u^2} - C \cdot \sqrt{A \cdot B \cdot C \cdot N_u - A^2 \cdot N_u^2} + B \cdot C^2 \right) \cdot \sqrt{-A^3 \cdot B^2 \cdot (A \cdot N_u^2 - B \cdot C \cdot N_u)}}{A \cdot B \cdot \sqrt{N_u^2 \cdot \left[\sqrt{A \cdot B \cdot C \cdot N_u - A^2 \cdot N_u^2} \cdot (A - C) + B \cdot C^2 \right]^2} \cdot \sqrt{-A \cdot (A \cdot N_u^2 - B \cdot C \cdot N_u)}}$



Unit. $AB := 1$ Given. $N_1 := 4.78788$ $N_2 := 1.48485$ $N_3 := 1.69697$
 $N_4 := 1.33333$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{A - B - C + \sqrt{(B - A + C - 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}}{2 \cdot (A - B - C + D)} = 0.317401$$

$$\text{Num} := \frac{A - B - C + \sqrt{(B - A + C - 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}}{\sqrt{\left[A - B - C + \sqrt{(B - A + C - 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot (A - B - C + D)}{\sqrt{\left[2 \cdot (A - B - C + D)\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = -1$ $\text{Den} = -1$ $L = 1$

$$L - \frac{\sqrt{(2 \cdot A - 2 \cdot B - 2 \cdot C + 2 \cdot D)^2 \cdot \left[A - B - C + \sqrt{-(A - B - C + 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}\right]}}{2 \cdot \sqrt{\left[A - B - C + \sqrt{-(A - B - C + 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}\right]^2 \cdot (A - B - C + D)}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

1, 0, 0, 0:

$$\frac{\sqrt{(2 \cdot A - 2)^2} \cdot [A + \sqrt{-A \cdot (3 \cdot A - 4)} - 2]}{2 \cdot (A - 1) \cdot \sqrt{[A + \sqrt{-A \cdot (3 \cdot A - 4)} - 2]^2}}$$

0, 2, 0, 0:

$$\frac{\sqrt{(2 \cdot B - 2)^2} \cdot [B - \sqrt{-(B - 2) \cdot (3 \cdot B - 2)}]}{2 \cdot (B - 1) \cdot \sqrt{[B - \sqrt{-(B - 2) \cdot (3 \cdot B - 2)}]^2}}$$

1, 2, 0, 0:

$$\frac{\sqrt{(2 \cdot A - 2 \cdot B)^2} \cdot [A - B + \sqrt{(3 \cdot B - 3 \cdot A + 1) \cdot (A - B + 1)} - 1]}{2 \cdot \sqrt{[A - B + \sqrt{(3 \cdot B - 3 \cdot A + 1) \cdot (A - B + 1)} - 1]^2} \cdot (A - B)}$$

0, 0, 3, 0:

$$\frac{\sqrt{(2 \cdot C - 2)^2} \cdot [C - \sqrt{-(C - 2) \cdot (3 \cdot C - 2)}]}{2 \cdot (C - 1) \cdot \sqrt{[C - \sqrt{-(C - 2) \cdot (3 \cdot C - 2)}]^2}}$$

1, 0, 3, 0:

$$\frac{\sqrt{(2 \cdot A - 2 \cdot C)^2} \cdot [A - C + \sqrt{(3 \cdot C - 3 \cdot A + 1) \cdot (A - C + 1)} - 1]}{2 \cdot \sqrt{[A - C + \sqrt{(3 \cdot C - 3 \cdot A + 1) \cdot (A - C + 1)} - 1]^2} \cdot (A - C)}$$

0, 2, 3, 0:

$$\frac{\sqrt{(2 \cdot B + 2 \cdot C - 4)^2} \cdot [B + C - \sqrt{-(3 \cdot B + 3 \cdot C - 5) \cdot (B + C - 3)} - 1]}{2 \cdot \sqrt{[B + C - \sqrt{-(3 \cdot B + 3 \cdot C - 5) \cdot (B + C - 3)} - 1]^2} \cdot (B + C - 2)}$$

1, 2, 3, 0:

$$\frac{\sqrt{(2 \cdot A - 2 \cdot B - 2 \cdot C + 2)^2} \cdot [A - B - C + \sqrt{-(3 \cdot A - 3 \cdot B - 3 \cdot C + 2) \cdot (A - B - C + 2)}]}{2 \cdot \sqrt{[A - B - C + \sqrt{-(3 \cdot A - 3 \cdot B - 3 \cdot C + 2) \cdot (A - B - C + 2)}]^2} \cdot (A - B - C + 1)}$$

0, 0, 0, 4:

$$\frac{\sqrt{(2 \cdot D - 2)^2} \cdot [\sqrt{-(2 \cdot D - 1) \cdot (2 \cdot D - 3)} - 1]}{2 \cdot (D - 1) \cdot \sqrt{[\sqrt{-(2 \cdot D - 1) \cdot (2 \cdot D - 3)} - 1]^2}}$$

1, 0, 0, 4:

$$\frac{\sqrt{(2 \cdot A + 2 \cdot D - 4)^2} \cdot [A + \sqrt{-(3 \cdot A + 2 \cdot D - 6) \cdot (A + 2 \cdot D - 2)} - 2]}{2 \cdot \sqrt{[A + \sqrt{-(3 \cdot A + 2 \cdot D - 6) \cdot (A + 2 \cdot D - 2)} - 2]^2} \cdot (A + D - 2)}$$

0, 2, 0, 4:

$$\frac{[B - \sqrt{-(3 \cdot B - 2 \cdot D) \cdot (B - 2 \cdot D)}] \cdot \sqrt{(2 \cdot B - 2 \cdot D)^2}}{2 \cdot \sqrt{[B - \sqrt{-(3 \cdot B - 2 \cdot D) \cdot (B - 2 \cdot D)}]^2} \cdot (B - D)}$$

1, 2, 0, 4:

$$\frac{\sqrt{(2 \cdot A - 2 \cdot B + 2 \cdot D - 2)^2} \cdot [A - B + \sqrt{-(3 \cdot A - 3 \cdot B + 2 \cdot D - 3) \cdot (A - B + 2 \cdot D - 1)} - 1]}{2 \cdot \sqrt{[A - B + \sqrt{-(3 \cdot A - 3 \cdot B + 2 \cdot D - 3) \cdot (A - B + 2 \cdot D - 1)} - 1]^2} \cdot (A - B + D - 1)}$$

0, 0, 3, 4:

$$\frac{[C - \sqrt{-(3 \cdot C - 2 \cdot D) \cdot (C - 2 \cdot D)}] \cdot \sqrt{(2 \cdot C - 2 \cdot D)^2}}{2 \cdot \sqrt{[C - \sqrt{-(3 \cdot C - 2 \cdot D) \cdot (C - 2 \cdot D)}]^2} \cdot (C - D)}$$

1, 0, 3, 4:

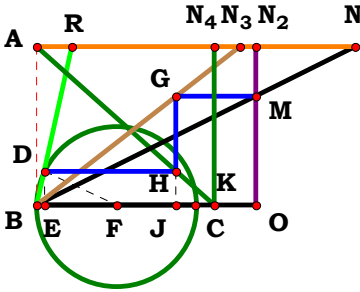
$$\frac{\sqrt{(2 \cdot A - 2 \cdot C + 2 \cdot D - 2)^2} \cdot [A - C + \sqrt{-(3 \cdot A - 3 \cdot C + 2 \cdot D - 3) \cdot (A - C + 2 \cdot D - 1)} - 1]}{2 \cdot \sqrt{[A - C + \sqrt{-(3 \cdot A - 3 \cdot C + 2 \cdot D - 3) \cdot (A - C + 2 \cdot D - 1)} - 1]^2} \cdot (A - C + D - 1)}$$

0, 2, 3, 4:

$$\frac{\sqrt{(2 \cdot B + 2 \cdot C - 2 \cdot D - 2)^2} \cdot [B + C - \sqrt{-(3 \cdot B + 3 \cdot C - 2 \cdot D - 3) \cdot (B + C - 2 \cdot D - 1)} - 1]}{2 \cdot \sqrt{[B + C - \sqrt{-(3 \cdot B + 3 \cdot C - 2 \cdot D - 3) \cdot (B + C - 2 \cdot D - 1)} - 1]^2} \cdot (B + C - D - 1)}$$

1, 2, 3, 4:

$$\frac{\sqrt{(2 \cdot A - 2 \cdot B - 2 \cdot C + 2 \cdot D)^2} \cdot [A - B - C + \sqrt{-(A - B - C + 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}]}{2 \cdot \sqrt{[A - B - C + \sqrt{-(A - B - C + 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}]^2} \cdot (A - B - C + D)}$$



N₁ = 2.01010
N₂ = 1.38384
N₃ = 1.28283
N₄ = 1.12121
R = 0.22287

Unit. AB := 1 Given. N₁ := 2.01010 N₂ := 1.38384 N₃ := 1.28283
N₄ := 1.12121
N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{B \cdot C - \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)}}{2 \cdot (B \cdot C - A \cdot D)} = 0.222865$$

$$\text{Num} := \frac{B \cdot C - \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)}}{\sqrt{[B \cdot C - \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)}]^2}} \quad \text{Den} := \frac{2 \cdot (B \cdot C - A \cdot D)}{\sqrt{[2 \cdot (B \cdot C - A \cdot D)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

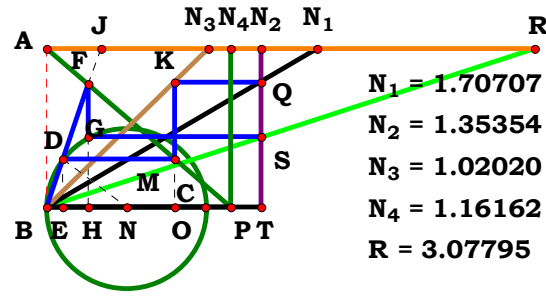
Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{[2 \cdot (B \cdot C - A \cdot D)]^2} \cdot [B \cdot C - \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)}]}{2 \cdot (B \cdot C - A \cdot D) \cdot \sqrt{[B \cdot C - \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)}]^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	0	0, 0, 0, 4:	$\frac{\sqrt{(2 \cdot D - 2)^2} \cdot [\sqrt{-(2 \cdot D - 1) \cdot (2 \cdot D - 3)} - 1]}{\sqrt{[\sqrt{-(2 \cdot D - 1) \cdot (2 \cdot D - 3)} - 1]^2 \cdot (2 \cdot D - 2)}}$
1, 0, 0, 0:	$\frac{\sqrt{(2 \cdot A - 2)^2} \cdot [\sqrt{-(2 \cdot A - 1) \cdot (2 \cdot A - 3)} - 1]}{\sqrt{[\sqrt{-(2 \cdot A - 1) \cdot (2 \cdot A - 3)} - 1]^2 \cdot (2 \cdot A - 2)}}$	1, 0, 0, 4:	$\frac{\sqrt{(2 \cdot A \cdot D - 2)^2} \cdot [\sqrt{-(2 \cdot A \cdot D - 1) \cdot (2 \cdot A \cdot D - 3)} - 1]}{\sqrt{[\sqrt{-(2 \cdot A \cdot D - 1) \cdot (2 \cdot A \cdot D - 3)} - 1]^2 \cdot (2 \cdot A \cdot D - 2)}}$
0, 2, 0, 0:	$\frac{\sqrt{(2 \cdot B - 2)^2} \cdot [B - \sqrt{-(B - 2) \cdot (3 \cdot B - 2)}]}{(2 \cdot B - 2) \cdot \sqrt{[B - \sqrt{-(B - 2) \cdot (3 \cdot B - 2)}]^2}}$	0, 2, 0, 4:	$\frac{[B - \sqrt{-(3 \cdot B - 2 \cdot D) \cdot (B - 2 \cdot D)}] \cdot \sqrt{(2 \cdot B - 2 \cdot D)^2}}{\sqrt{[B - \sqrt{-(3 \cdot B - 2 \cdot D) \cdot (B - 2 \cdot D)}]^2 \cdot (2 \cdot B - 2 \cdot D)}}$
1, 2, 0, 0:	$\frac{[B - \sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)}] \cdot \sqrt{(2 \cdot A - 2 \cdot B)^2}}{\sqrt{[B - \sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)}]^2 \cdot (2 \cdot A - 2 \cdot B)}}$	1, 2, 0, 4:	$\frac{\sqrt{(2 \cdot B - 2 \cdot A \cdot D)^2} \cdot [B - \sqrt{-(B - 2 \cdot A \cdot D) \cdot (3 \cdot B - 2 \cdot A \cdot D)}]}{(2 \cdot B - 2 \cdot A \cdot D) \cdot \sqrt{[B - \sqrt{-(B - 2 \cdot A \cdot D) \cdot (3 \cdot B - 2 \cdot A \cdot D)}]^2}}$
0, 0, 3, 0:	$\frac{\sqrt{(2 \cdot C - 2)^2} \cdot [C - \sqrt{-(C - 2) \cdot (3 \cdot C - 2)}]}{(2 \cdot C - 2) \cdot \sqrt{[C - \sqrt{-(C - 2) \cdot (3 \cdot C - 2)}]^2}}$	0, 0, 3, 4:	$\frac{[C - \sqrt{-(3 \cdot C - 2 \cdot D) \cdot (C - 2 \cdot D)}] \cdot \sqrt{(2 \cdot C - 2 \cdot D)^2}}{\sqrt{[C - \sqrt{-(3 \cdot C - 2 \cdot D) \cdot (C - 2 \cdot D)}]^2 \cdot (2 \cdot C - 2 \cdot D)}}$
1, 0, 3, 0:	$\frac{[C - \sqrt{(2 \cdot A - 3 \cdot C) \cdot (C - 2 \cdot A)}] \cdot \sqrt{(2 \cdot A - 2 \cdot C)^2}}{\sqrt{[C - \sqrt{(2 \cdot A - 3 \cdot C) \cdot (C - 2 \cdot A)}]^2 \cdot (2 \cdot A - 2 \cdot C)}}$	1, 0, 3, 4:	$\frac{\sqrt{(2 \cdot C - 2 \cdot A \cdot D)^2} \cdot [C - \sqrt{-(C - 2 \cdot A \cdot D) \cdot (3 \cdot C - 2 \cdot A \cdot D)}]}{(2 \cdot C - 2 \cdot A \cdot D) \cdot \sqrt{[C - \sqrt{-(C - 2 \cdot A \cdot D) \cdot (3 \cdot C - 2 \cdot A \cdot D)}]^2}}$
0, 2, 3, 0:	$\frac{\sqrt{(2 \cdot B \cdot C - 2)^2} \cdot [\sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} - B \cdot C]}{\sqrt{[\sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} - B \cdot C]^2 \cdot (2 \cdot B \cdot C - 2)}}$	0, 2, 3, 4:	$\frac{\sqrt{(2 \cdot D - 2 \cdot B \cdot C)^2} \cdot [B \cdot C - \sqrt{-(2 \cdot D - B \cdot C) \cdot (2 \cdot D - 3 \cdot B \cdot C)}]}{(2 \cdot D - 2 \cdot B \cdot C) \cdot \sqrt{[B \cdot C - \sqrt{-(2 \cdot D - B \cdot C) \cdot (2 \cdot D - 3 \cdot B \cdot C)}]^2}}$
1, 2, 3, 0:	$\frac{\sqrt{(2 \cdot A - 2 \cdot B \cdot C)^2} \cdot [B \cdot C - \sqrt{-(2 \cdot A - B \cdot C) \cdot (2 \cdot A - 3 \cdot B \cdot C)}]}{(2 \cdot A - 2 \cdot B \cdot C) \cdot \sqrt{[B \cdot C - \sqrt{-(2 \cdot A - B \cdot C) \cdot (2 \cdot A - 3 \cdot B \cdot C)}]^2}}$	1, 2, 3, 4:	$\frac{\sqrt{[2 \cdot (B \cdot C - A \cdot D)]^2} \cdot [B \cdot C - \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)}]}{2 \cdot (B \cdot C - A \cdot D) \cdot \sqrt{[B \cdot C - \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)}]^2}}$



Unit. $AB := 1$ Given. $N_1 := 1.70707$ $N_2 := 1.35354$ $N_3 := 1.02020$

$N_4 := 1.16162$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{\sqrt{2} \cdot N_u^2 \cdot \left[B \cdot C \cdot D - D \cdot \sqrt{8 \cdot A \cdot B \cdot C \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2 \cdot C^2} - 2 \cdot N_u \cdot (A \cdot D - B \cdot C) \right]}{2 \cdot B \cdot \sqrt{2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) - D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{(2 \cdot A \cdot D - 3 \cdot B \cdot C) \cdot (B \cdot C - 2 \cdot A \cdot D)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right]} - 2 \cdot N_u^3 \cdot (A^2 \cdot D^3 - B^2 \cdot C^2 \cdot N_u)} = 3.077953$$

$$\text{Num} := \frac{\sqrt{2} \cdot N_u^2 \cdot \left[B \cdot C \cdot D - D \cdot \sqrt{8 \cdot A \cdot B \cdot C \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2 \cdot C^2} - 2 \cdot N_u \cdot (A \cdot D - B \cdot C) \right]}{\sqrt{\left[\sqrt{2} \cdot N_u^2 \cdot \left[B \cdot C \cdot D - D \cdot \sqrt{8 \cdot A \cdot B \cdot C \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2 \cdot C^2} - 2 \cdot N_u \cdot (A \cdot D - B \cdot C) \right] \right]^2}}$$

$$\text{Den} := \frac{2 \cdot B \cdot \sqrt{2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) - D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{(2 \cdot A \cdot D - 3 \cdot B \cdot C) \cdot (B \cdot C - 2 \cdot A \cdot D)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right]} - 2 \cdot N_u^3 \cdot (A^2 \cdot D^3 - B^2 \cdot C^2 \cdot N_u)}{\sqrt{\left[2 \cdot B \cdot \sqrt{2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) - D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{(2 \cdot A \cdot D - 3 \cdot B \cdot C) \cdot (B \cdot C - 2 \cdot A \cdot D)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right]} - 2 \cdot N_u^3 \cdot (A^2 \cdot D^3 - B^2 \cdot C^2 \cdot N_u) \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u^2 \cdot \sqrt{-B^2 \cdot \left[2 \cdot N_u^3 \cdot (A^2 \cdot D^3 - B^2 \cdot C^2 \cdot N_u) \dots + D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right] \dots + -2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) \right]} \cdot (B \cdot C \cdot D - D \cdot \sqrt{8 \cdot A \cdot B \cdot C \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2 \cdot C^2} - 2 \cdot A \cdot D \cdot N_u + 2 \cdot B \cdot C \cdot N_u)}{B \cdot \sqrt{N_u^4 \cdot \left[D \cdot \sqrt{8 \cdot A \cdot B \cdot C \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2 \cdot C^2} \dots + 2 \cdot N_u \cdot (A \cdot D - B \cdot C) - B \cdot C \cdot D \right]^2} \cdot \sqrt{2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) \dots + -D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right] \dots + -2 \cdot N_u^3 \cdot (A^2 \cdot D^3 - B^2 \cdot C^2 \cdot N_u)}} = 0$$



For 4 variables there are 16 subsets.

$$\begin{array}{lcl}
 0, 0, 0, 0: & 0 & 1, 0, 0, 0: \frac{N_u^2 \cdot \left(2 \cdot N_u - \sqrt{-4 \cdot A^2 + 8 \cdot A - 3 - 2 \cdot A \cdot N_u + 1} \right)}{\sqrt{N_u^4 \cdot \left(2 \cdot N_u - \sqrt{-4 \cdot A^2 + 8 \cdot A - 3 - 2 \cdot A \cdot N_u + 1} \right)^2}} \\
 0, 2, 0, 0: & \frac{N_u^2 \cdot \sqrt{B^2 \cdot \left[2 \cdot N_u^3 \cdot (2 \cdot B + N_u) - N_u^3 \cdot \left[\sqrt{-(B-2) \cdot (3 \cdot B - 2)} \cdot (B - N_u) + B^2 + 5 \cdot B \cdot N_u \right] + 2 \cdot N_u^3 \cdot (B^2 \cdot N_u - 1) \right]} \cdot \left(B - 2 \cdot N_u - \sqrt{-3 \cdot B^2 + 8 \cdot B - 4 + 2 \cdot B \cdot N_u} \right)}{B \cdot \sqrt{N_u^4 \cdot \left(B - 2 \cdot N_u - \sqrt{-3 \cdot B^2 + 8 \cdot B - 4 + 2 \cdot B \cdot N_u} \right)^2} \cdot \sqrt{2 \cdot N_u^3 \cdot (2 \cdot B + N_u) - N_u^3 \cdot \left[\sqrt{-(B-2) \cdot (3 \cdot B - 2)} \cdot (B - N_u) + B^2 + 5 \cdot B \cdot N_u \right] + 2 \cdot N_u^3 \cdot (B^2 \cdot N_u - 1)}} \\
 1, 2, 0, 0: & \frac{N_u^2 \cdot \sqrt{-B^2 \cdot \left[2 \cdot N_u^3 \cdot (A^2 - B^2 \cdot N_u) + N_u^3 \cdot \left[B^2 + \sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)} \cdot (B - A \cdot N_u) + 5 \cdot A \cdot B \cdot N_u \right] - 2 \cdot A \cdot N_u^3 \cdot (2 \cdot B + A \cdot N_u) \right]} \cdot \left(B - 2 \cdot A \cdot N_u + 2 \cdot B \cdot N_u - \sqrt{-4 \cdot A^2 + 8 \cdot A \cdot B - 3 \cdot B^2} \right)}{B \cdot \sqrt{N_u^4 \cdot \left(B - 2 \cdot A \cdot N_u + 2 \cdot B \cdot N_u - \sqrt{-4 \cdot A^2 + 8 \cdot A \cdot B - 3 \cdot B^2} \right)^2} \cdot \sqrt{2 \cdot A \cdot N_u^3 \cdot (2 \cdot B + A \cdot N_u) - N_u^3 \cdot \left[B^2 + \sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)} \cdot (B - A \cdot N_u) + 5 \cdot A \cdot B \cdot N_u \right] - 2 \cdot N_u^3 \cdot (A^2 - B^2 \cdot N_u)}} \\
 0, 0, 3, 0: & \frac{N_u^2 \cdot \left(C - 2 \cdot N_u - \sqrt{-3 \cdot C^2 + 8 \cdot C - 4 + 2 \cdot C \cdot N_u} \right)}{\sqrt{N_u^4 \cdot \left(C - 2 \cdot N_u - \sqrt{-3 \cdot C^2 + 8 \cdot C - 4 + 2 \cdot C \cdot N_u} \right)^2}} & 1, 0, 3, 0: \frac{N_u^2 \cdot \left(C - 2 \cdot A \cdot N_u + 2 \cdot C \cdot N_u - \sqrt{-4 \cdot A^2 + 8 \cdot A \cdot C - 3 \cdot C^2} \right)}{\sqrt{N_u^4 \cdot \left(C - 2 \cdot A \cdot N_u + 2 \cdot C \cdot N_u - \sqrt{-4 \cdot A^2 + 8 \cdot A \cdot C - 3 \cdot C^2} \right)^2}} \\
 0, 2, 3, 0: & \frac{N_u^2 \cdot \sqrt{B^2 \cdot \left[2 \cdot N_u^3 \cdot (B^2 \cdot C^2 \cdot N_u - 1) \dots \right.} \cdot \left(2 \cdot N_u + \sqrt{8 \cdot B \cdot C - 3 \cdot B^2 \cdot C^2 - 4 - B \cdot C - 2 \cdot B \cdot C \cdot N_u} \right)}{\sqrt{\left. + N_u^3 \cdot \left[B^2 \cdot C^2 - (N_u - B \cdot C) \cdot \sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} + 5 \cdot B \cdot C \cdot N_u \right] + 2 \cdot N_u^3 \cdot (N_u + 2 \cdot B \cdot C) \right]} \cdot \sqrt{B \cdot \sqrt{N_u^4 \cdot \left(2 \cdot N_u + \sqrt{8 \cdot B \cdot C - 3 \cdot B^2 \cdot C^2 - 4 - B \cdot C - 2 \cdot B \cdot C \cdot N_u} \right)^2} \cdot \sqrt{2 \cdot N_u^3 \cdot (B^2 \cdot C^2 \cdot N_u - 1) \dots} \cdot \sqrt{\left. + N_u^3 \cdot \left[B^2 \cdot C^2 - (N_u - B \cdot C) \cdot \sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} + 5 \cdot B \cdot C \cdot N_u \right] + 2 \cdot N_u^3 \cdot (N_u + 2 \cdot B \cdot C) \right}}} \\
 1, 2, 3, 0: & \frac{N_u^2 \cdot \sqrt{-B^2 \cdot \left[2 \cdot N_u^3 \cdot (A^2 - B^2 \cdot C^2 \cdot N_u) \dots \right.} \cdot \left(B \cdot C - 2 \cdot A \cdot N_u \dots \right)}{\sqrt{\left. + N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{-(2 \cdot A - B \cdot C) \cdot (2 \cdot A - 3 \cdot B \cdot C)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right] - 2 \cdot A \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) \right]} \cdot \sqrt{\left(+ \sqrt{-4 \cdot A^2 + 8 \cdot A \cdot B \cdot C - 3 \cdot B^2 \cdot C^2 + 2 \cdot B \cdot C \cdot N_u} \right)} \\
 & B \cdot \sqrt{N_u^4 \cdot \left(B \cdot C - 2 \cdot A \cdot N_u \dots \right)^2} \cdot \sqrt{\left(+ \sqrt{-4 \cdot A^2 + 8 \cdot A \cdot B \cdot C - 3 \cdot B^2 \cdot C^2 + 2 \cdot B \cdot C \cdot N_u} \right)} \cdot \sqrt{2 \cdot A \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) \dots} \cdot \sqrt{\left(+ N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{-(2 \cdot A - B \cdot C) \cdot (2 \cdot A - 3 \cdot B \cdot C)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right] - 2 \cdot N_u^3 \cdot (A^2 - B^2 \cdot C^2 \cdot N_u) \right)}
 \end{array}$$

0, 0, 0, 4:

$$\frac{N_u^2 \cdot (D + 2 \cdot N_u - 2 \cdot D \cdot N_u - D \cdot \sqrt{8 \cdot D - 4 \cdot D^2 - 3})}{\sqrt{N_u^4 \cdot (D + 2 \cdot N_u - 2 \cdot D \cdot N_u - D \cdot \sqrt{8 \cdot D - 4 \cdot D^2 - 3})^2}}$$

$$\frac{N_u^2 \cdot (D + 2 \cdot N_u - D \cdot \sqrt{8 \cdot A \cdot D - 4 \cdot A^2 \cdot D^2 - 3} - 2 \cdot A \cdot D \cdot N_u)}{\sqrt{N_u^4 \cdot (D + 2 \cdot N_u - D \cdot \sqrt{8 \cdot A \cdot D - 4 \cdot A^2 \cdot D^2 - 3} - 2 \cdot A \cdot D \cdot N_u)^2}}$$

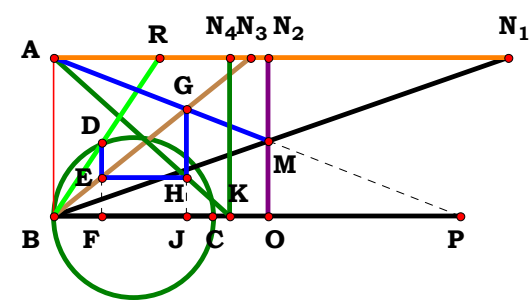
$$\frac{N_u^2 \cdot \sqrt{-B^2 \cdot \left[2 \cdot N_u^3 \cdot (D^3 - B^2 \cdot N_u) \dots \right.} \cdot (D \cdot \sqrt{8 \cdot B \cdot D - 3 \cdot B^2 - 4 \cdot D^2} - B \cdot D - 2 \cdot B \cdot N_u + 2 \cdot D \cdot N_u)}{\left. + D \cdot N_u^3 \cdot [B^2 + 5 \cdot B \cdot N_u + \sqrt{-(3 \cdot B - 2 \cdot D) \cdot (B - 2 \cdot D)} \cdot (B - N_u)] - 2 \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B + N_u) \right]} \cdot \sqrt{N_u^4 \cdot (D \cdot \sqrt{8 \cdot B \cdot D - 3 \cdot B^2 - 4 \cdot D^2} - B \cdot D - 2 \cdot B \cdot N_u + 2 \cdot D \cdot N_u)^2} \cdot \sqrt{2 \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B + N_u) \dots + -D \cdot N_u^3 \cdot [B^2 + 5 \cdot B \cdot N_u + \sqrt{-(3 \cdot B - 2 \cdot D) \cdot (B - 2 \cdot D)} \cdot (B - N_u)] - 2 \cdot N_u^3 \cdot (D^3 - B^2 \cdot N_u)}$$

$$\frac{N_u^2 \cdot \sqrt{-B^2 \cdot \left[2 \cdot N_u^3 \cdot (A^2 \cdot D^3 - B^2 \cdot N_u) \dots \right.} \cdot (D \cdot \sqrt{8 \cdot A \cdot B \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2} \dots)}{\left. + D \cdot N_u^3 \cdot [B^2 + (B - A \cdot N_u) \cdot \sqrt{-(B - 2 \cdot A \cdot D) \cdot (3 \cdot B - 2 \cdot A \cdot D)} + 5 \cdot A \cdot B \cdot N_u] - 2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B + A \cdot N_u) \right]} \cdot \left(\frac{D \cdot \sqrt{8 \cdot A \cdot B \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2} \dots}{+ -B \cdot D - 2 \cdot B \cdot N_u + 2 \cdot A \cdot D \cdot N_u} \right) \cdot \sqrt{N_u^4 \cdot (D \cdot \sqrt{8 \cdot A \cdot B \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2} \dots)^2} \cdot \sqrt{2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B + A \cdot N_u) \dots + -D \cdot N_u^3 \cdot [B^2 + (B - A \cdot N_u) \cdot \sqrt{-(B - 2 \cdot A \cdot D) \cdot (3 \cdot B - 2 \cdot A \cdot D)} + 5 \cdot A \cdot B \cdot N_u] - 2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B + A \cdot N_u)}$$

$$\frac{N_u^2 \cdot (D \cdot \sqrt{8 \cdot C \cdot D - 3 \cdot C^2 - 4 \cdot D^2} - C \cdot D - 2 \cdot C \cdot N_u + 2 \cdot D \cdot N_u)}{\sqrt{N_u^4 \cdot (D \cdot \sqrt{8 \cdot C \cdot D - 3 \cdot C^2 - 4 \cdot D^2} - C \cdot D - 2 \cdot C \cdot N_u + 2 \cdot D \cdot N_u)^2}}$$

Ans

$$\begin{aligned}
 & \text{0, 2, 3, 4:} \quad \frac{N_u^2 \cdot \sqrt{-B^2 \cdot \left[2 \cdot N_u^3 \cdot (D^3 - B^2 \cdot C^2 \cdot N_u) \dots \right.} \cdot \left(\begin{aligned} & D \cdot \sqrt{8 \cdot B \cdot C \cdot D - 3 \cdot B^2 \cdot C^2 - 4 \cdot D^2} \dots \\ & + 2 \cdot D \cdot N_u - B \cdot C \cdot D - 2 \cdot B \cdot C \cdot N_u \end{aligned} \right)} \\
 & \quad \left. + -2 \cdot D^2 \cdot N_u^3 \cdot (N_u + 2 \cdot B \cdot C) + D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 - \sqrt{-(2 \cdot D - B \cdot C) \cdot (2 \cdot D - 3 \cdot B \cdot C)} \cdot (N_u - B \cdot C) + 5 \cdot B \cdot C \cdot N_u \right] \right]}{B \cdot \sqrt{N_u^4 \cdot \left(\begin{aligned} & D \cdot \sqrt{8 \cdot B \cdot C \cdot D - 3 \cdot B^2 \cdot C^2 - 4 \cdot D^2} \dots \\ & + 2 \cdot D \cdot N_u - B \cdot C \cdot D - 2 \cdot B \cdot C \cdot N_u \end{aligned} \right)^2} \cdot \sqrt{2 \cdot D^2 \cdot N_u^3 \cdot (N_u + 2 \cdot B \cdot C) - 2 \cdot N_u^3 \cdot (D^3 - B^2 \cdot C^2 \cdot N_u) \dots}} \\
 & \quad \left. + -D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 - \sqrt{-(2 \cdot D - B \cdot C) \cdot (2 \cdot D - 3 \cdot B \cdot C)} \cdot (N_u - B \cdot C) + 5 \cdot B \cdot C \cdot N_u \right] \right]} \\
 & \text{1, 2, 3, 4:} \quad \frac{N_u^2 \cdot \sqrt{-B^2 \cdot \left[2 \cdot N_u^3 \cdot (A^2 \cdot D^3 - B^2 \cdot C^2 \cdot N_u) \dots \right.} \cdot \left(\begin{aligned} & B \cdot C \cdot D - D \cdot \sqrt{8 \cdot A \cdot B \cdot C \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2 \cdot C^2} \dots \\ & + -2 \cdot A \cdot D \cdot N_u + 2 \cdot B \cdot C \cdot N_u \end{aligned} \right)} \\
 & \quad \left. + D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right] \dots \right. \\
 & \quad \left. + -2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) \right]}{B \cdot \sqrt{N_u^4 \cdot \left[\begin{aligned} & D \cdot \sqrt{8 \cdot A \cdot B \cdot C \cdot D - 4 \cdot A^2 \cdot D^2 - 3 \cdot B^2 \cdot C^2} \dots \\ & + 2 \cdot N_u \cdot (A \cdot D - B \cdot C) - B \cdot C \cdot D \end{aligned} \right]^2} \cdot \sqrt{2 \cdot A \cdot D^2 \cdot N_u^3 \cdot (2 \cdot B \cdot C + A \cdot N_u) \dots}} \\
 & \quad \left. + -D \cdot N_u^3 \cdot \left[B^2 \cdot C^2 + \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} \cdot (B \cdot C - A \cdot N_u) + 5 \cdot A \cdot B \cdot C \cdot N_u \right] \dots \right. \\
 & \quad \left. + -2 \cdot N_u^3 \cdot (A^2 \cdot D^3 - B^2 \cdot C^2 \cdot N_u) \right]}
 \end{aligned}$$



$N_1 = 2.86869$
 $N_2 = 1.35354$
 $N_3 = 1.24242$
 $N_4 = 1.11111$
 $R = 0.66524$

Unit. $AB := 1$ Given. $N_1 := 2.86869$ $N_2 := 1.35354$ $N_3 := 1.24242$
 $N_4 := 1.11111$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (B - A + C - D)}{\sqrt{N_u \cdot (B - A + C - D) \cdot [N_u \cdot (A - B - C + D) + C \cdot (B - A + C)]}} = 0.665236$$

$$Num := \frac{N_u \cdot (B - A + C - D)}{\sqrt{[N_u \cdot (B - A + C - D)]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (B - A + C - D) \cdot [N_u \cdot (A - B - C + D) + C \cdot (B - A + C)]}}{\sqrt{[\sqrt{N_u \cdot (B - A + C - D) \cdot [N_u \cdot (A - B - C + D) + C \cdot (B - A + C)]}]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

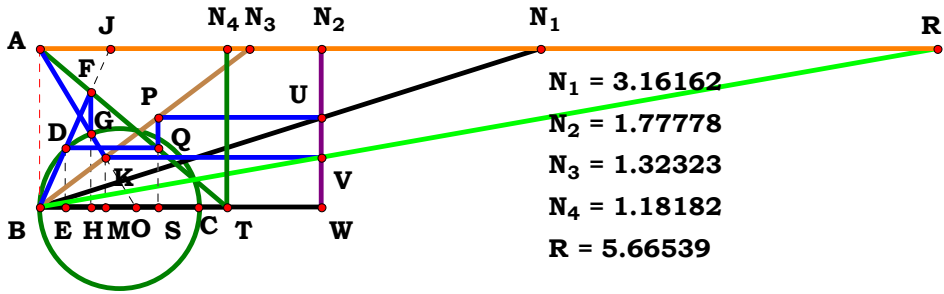
$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (B - A + C - D)}{\sqrt{N_u^2 \cdot (A - B - C + D)^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:	0	0, 0, 0, 4:	$-\frac{\mathbf{N_u} \cdot (\mathbf{D} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{D} - 1)^2}}$
1, 0, 0, 0:	$-\frac{\mathbf{N_u} \cdot (\mathbf{A} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - 1)^2}}$	1, 0, 0, 4:	$-\frac{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{D} - 2)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{D} - 2)^2}}$
0, 2, 0, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} - 1)^2}}$	0, 2, 0, 4:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} - \mathbf{D})}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} - \mathbf{D})^2}}$
1, 2, 0, 0:	$-\frac{\mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B})^2}}$	1, 2, 0, 4:	$-\frac{\mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B} + \mathbf{D} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B} + \mathbf{D} - 1)^2}}$
0, 0, 3, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{C} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{C} - 1)^2}}$	0, 0, 3, 4:	$\frac{\mathbf{N_u} \cdot (\mathbf{C} - \mathbf{D})}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{C} - \mathbf{D})^2}}$
1, 0, 3, 0:	$-\frac{\mathbf{N_u} \cdot (\mathbf{A} - \mathbf{C})}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{C})^2}}$	1, 0, 3, 4:	$-\frac{\mathbf{N_u} \cdot (\mathbf{A} - \mathbf{C} + \mathbf{D} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{C} + \mathbf{D} - 1)^2}}$
0, 2, 3, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} + \mathbf{C} - 2)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} + \mathbf{C} - 2)^2}}$	0, 2, 3, 4:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} + \mathbf{C} - \mathbf{D} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{B} + \mathbf{C} - \mathbf{D} - 1)^2}}$
1, 2, 3, 0:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} - \mathbf{A} + \mathbf{C} - 1)}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B} - \mathbf{C} + 1)^2}}$	1, 2, 3, 4:	$\frac{\mathbf{N_u} \cdot (\mathbf{B} - \mathbf{A} + \mathbf{C} - \mathbf{D})}{\sqrt{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B} - \mathbf{C} + \mathbf{D})^2}}$



Unit. $AB := 1$ Given. $N_1 := 3.16162$ $N_2 := 1.77778$ $N_3 := 1.32323$

$N_4 := 1.18182$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{2} \cdot \sqrt{D \cdot N_u^4 \cdot (A \cdot N_u - B \cdot C)} \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + C^2 \cdot B^2 \cdot N_u^4 \cdot (2 \cdot N_u - D) + C \cdot A \cdot B \cdot D \cdot N_u^4 \cdot (4 \cdot D - 5 \cdot N_u) + 2 \cdot A^2 \cdot D^2 \cdot N_u^4 \cdot (N_u - D) \dots + \left(\sqrt{N_u}\right)^3 \cdot \left[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} \cdot (C + D) - B \cdot C^2 - B \cdot C \cdot D + 2 \cdot A \cdot D \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right]}{B \cdot C \cdot \sqrt{N_u} \cdot \left[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C\right]} = 5.665355$$

$$\sqrt{2} \cdot \sqrt{D \cdot N_u^4 \cdot (A \cdot N_u - B \cdot C)} \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + C^2 \cdot B^2 \cdot N_u^4 \cdot (2 \cdot N_u - D) + C \cdot A \cdot B \cdot D \cdot N_u^4 \cdot (4 \cdot D - 5 \cdot N_u) + 2 \cdot A^2 \cdot D^2 \cdot N_u^4 \cdot (N_u - D) \dots$$

$$+ \left(\sqrt{N_u}\right)^3 \cdot \left[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} \cdot (C + D) - B \cdot C^2 - B \cdot C \cdot D + 2 \cdot A \cdot D \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right]$$

$$\text{Num} := \frac{\sqrt{2} \cdot \sqrt{D \cdot N_u^4 \cdot (A \cdot N_u - B \cdot C)} \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + C^2 \cdot B^2 \cdot N_u^4 \cdot (2 \cdot N_u - D) + C \cdot A \cdot B \cdot D \cdot N_u^4 \cdot (4 \cdot D - 5 \cdot N_u) + 2 \cdot A^2 \cdot D^2 \cdot N_u^4 \cdot (N_u - D) \dots + \left(\sqrt{N_u}\right)^3 \cdot \left[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} \cdot (C + D) - B \cdot C^2 - B \cdot C \cdot D + 2 \cdot A \cdot D \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right]}{\left[\sqrt{2} \cdot \sqrt{D \cdot N_u^4 \cdot (A \cdot N_u - B \cdot C)} \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + C^2 \cdot B^2 \cdot N_u^4 \cdot (2 \cdot N_u - D) + C \cdot A \cdot B \cdot D \cdot N_u^4 \cdot (4 \cdot D - 5 \cdot N_u) + 2 \cdot A^2 \cdot D^2 \cdot N_u^4 \cdot (N_u - D) \dots + \left(\sqrt{N_u}\right)^3 \cdot \left[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} \cdot (C + D) - B \cdot C^2 - B \cdot C \cdot D + 2 \cdot A \cdot D \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right]}\right]^2}$$

$$\text{Den} := \frac{B \cdot C \cdot \sqrt{N_u} \cdot \left[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C\right]}{\sqrt{\left[B \cdot C \cdot \sqrt{N_u} \cdot \left[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C\right]\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

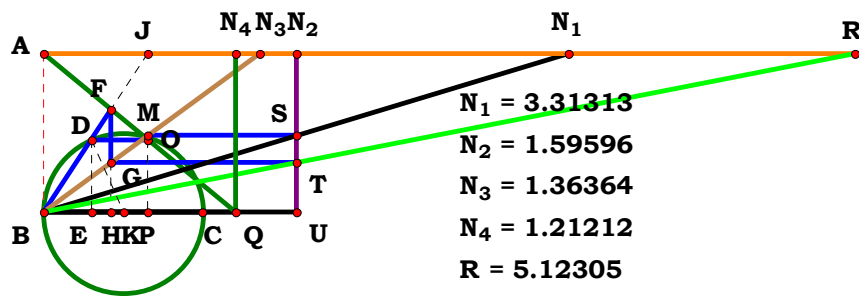
Definitions.

Num = -1 Den = -1 L = 1

This covers two monitors when laid out, so maybe some other time.

[illegible]

30BT8R5



Unit. $AB := 1$ **Given.** $N_1 := 3.31313$ $N_2 := 1.59596$ $N_3 := 1.36364$
 $N_4 := 1.21212$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot \left[2 \cdot \mathbf{A} \cdot \mathbf{D}^2 - \mathbf{N_u} \cdot \sqrt{(\mathbf{B} \cdot \mathbf{C} - 2 \cdot \mathbf{A} \cdot \mathbf{D}) \cdot (2 \cdot \mathbf{A} \cdot \mathbf{D} - 3 \cdot \mathbf{B} \cdot \mathbf{C})} - \mathbf{B} \cdot \mathbf{C} \cdot (2 \cdot \mathbf{D} + \mathbf{N_u}) \right]}{2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{C})} = 5.123112$$

$$\text{Den} := \frac{2 \cdot B \cdot C \cdot (A \cdot D - B \cdot C)}{\sqrt{[2 \cdot B \cdot C \cdot (A \cdot D - B \cdot C)]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot \left[2 \cdot \mathbf{A} \cdot \mathbf{D}^2 - \mathbf{N_u} \cdot \sqrt{(\mathbf{B} \cdot \mathbf{C} - 2 \cdot \mathbf{A} \cdot \mathbf{D}) \cdot (2 \cdot \mathbf{A} \cdot \mathbf{D} - 3 \cdot \mathbf{B} \cdot \mathbf{C})} - \mathbf{B} \cdot \mathbf{C} \cdot (2 \cdot \mathbf{D} + \mathbf{N_u}) \right]}{\sqrt{\left[\mathbf{N_u} \cdot \left[2 \cdot \mathbf{A} \cdot \mathbf{D}^2 - \mathbf{N_u} \cdot \sqrt{(\mathbf{B} \cdot \mathbf{C} - 2 \cdot \mathbf{A} \cdot \mathbf{D}) \cdot (2 \cdot \mathbf{A} \cdot \mathbf{D} - 3 \cdot \mathbf{B} \cdot \mathbf{C})} - \mathbf{B} \cdot \mathbf{C} \cdot (2 \cdot \mathbf{D} + \mathbf{N_u}) \right] \right]^2}}$$

Definitions.

Num = -1 Den = -1 L = 1

$$L - \frac{N_u \cdot \left[2 \cdot A \cdot D^2 - N_u \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - 2 \cdot B \cdot C \cdot D - B \cdot C \cdot N_u \right] \cdot \sqrt{B^2 \cdot C^2 \cdot (A \cdot D - B \cdot C)^2}}{B \cdot C \cdot \sqrt{N_u^2 \cdot \left[N_u \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - 2 \cdot A \cdot D^2 + B \cdot C \cdot (2 \cdot D + N_u) \right]^2 \cdot (A \cdot D - B \cdot C)}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

1, 0, 0, 0:
$$-\frac{N_u \cdot \sqrt{(A-1)^2} \cdot [N_u - 2 \cdot A + N_u \cdot \sqrt{-(2 \cdot A - 1) \cdot (2 \cdot A - 3)} + 2]}{(A-1) \cdot \sqrt{N_u^2 \cdot [N_u - 2 \cdot A + N_u \cdot \sqrt{-(2 \cdot A - 1) \cdot (2 \cdot A - 3)} + 2]^2}}$$

0, 2, 0, 0:
$$\frac{N_u \cdot \sqrt{B^2 \cdot (B-1)^2} \cdot [2 \cdot B + B \cdot N_u + N_u \cdot \sqrt{-(B-2) \cdot (3 \cdot B - 2)} - 2]}{B \cdot (B-1) \cdot \sqrt{N_u^2 \cdot [B \cdot (N_u + 2) + N_u \cdot \sqrt{-(B-2) \cdot (3 \cdot B - 2)} - 2]^2}}$$

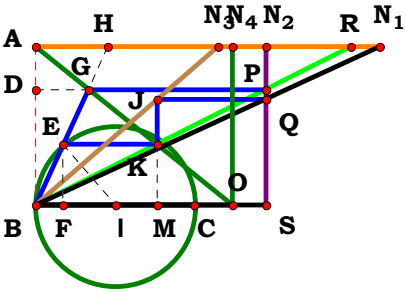
1, 2, 0, 0:
$$-\frac{N_u \cdot \sqrt{B^2 \cdot (A-B)^2} \cdot [2 \cdot B - 2 \cdot A + N_u \cdot \sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)} + B \cdot N_u]}{B \cdot \sqrt{N_u^2 \cdot [N_u \cdot \sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)} - 2 \cdot A + B \cdot (N_u + 2)]^2} \cdot (A-B)}$$

0, 0, 3, 0:
$$\frac{N_u \cdot \sqrt{C^2 \cdot (C-1)^2} \cdot [2 \cdot C + N_u \cdot \sqrt{-(C-2) \cdot (3 \cdot C - 2)} + C \cdot N_u - 2]}{C \cdot (C-1) \cdot \sqrt{N_u^2 \cdot [N_u \cdot \sqrt{-(C-2) \cdot (3 \cdot C - 2)} + C \cdot (N_u + 2) - 2]^2}}$$

1, 0, 3, 0:
$$-\frac{N_u \cdot \sqrt{C^2 \cdot (A-C)^2} \cdot [2 \cdot C - 2 \cdot A + N_u \cdot \sqrt{(2 \cdot A - 3 \cdot C) \cdot (C - 2 \cdot A)} + C \cdot N_u]}{C \cdot \sqrt{N_u^2 \cdot [N_u \cdot \sqrt{(2 \cdot A - 3 \cdot C) \cdot (C - 2 \cdot A)} - 2 \cdot A + C \cdot (N_u + 2)]^2} \cdot (A-C)}$$

0, 2, 3, 0:
$$\frac{N_u \cdot \sqrt{B^2 \cdot C^2 \cdot (B \cdot C - 1)^2} \cdot [2 \cdot B \cdot C + N_u \cdot \sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} + B \cdot C \cdot N_u - 2]}{B \cdot C \cdot \sqrt{N_u^2 \cdot [N_u \cdot \sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} + B \cdot C \cdot (N_u + 2) - 2]^2} \cdot (B \cdot C - 1)}$$

1, 2, 3, 0:
$$-\frac{N_u \cdot \sqrt{B^2 \cdot C^2 \cdot (A - B \cdot C)^2} \cdot [N_u \cdot \sqrt{-(2 \cdot A - B \cdot C) \cdot (2 \cdot A - 3 \cdot B \cdot C)} - 2 \cdot A + 2 \cdot B \cdot C + B \cdot C \cdot N_u]}{B \cdot C \cdot (A - B \cdot C) \cdot \sqrt{N_u^2 \cdot [N_u \cdot \sqrt{-(2 \cdot A - B \cdot C) \cdot (2 \cdot A - 3 \cdot B \cdot C)} - 2 \cdot A + B \cdot C \cdot (N_u + 2)]^2}}$$



$N_1 = 2.17172$
 $N_2 = 1.45455$
 $N_3 = 1.15152$
 $N_4 = 1.24242$
 $R = 1.99216$

Unit. $AB := 1$ Given. $N_1 := 2.17172$ $N_2 := 1.45455$ $N_3 := 1.15152$
 $N_4 := 1.24242$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$\frac{D \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C \cdot D + 2 \cdot N_u \cdot (A \cdot D - B \cdot C)}{2 \cdot B \cdot (A \cdot D - B \cdot C)} = 1.992156$$

$$Num := \frac{D \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C \cdot D + 2 \cdot N_u \cdot (A \cdot D - B \cdot C)}{\sqrt{\left[D \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C \cdot D + 2 \cdot N_u \cdot (A \cdot D - B \cdot C) \right]^2}}$$

$$Den := \frac{2 \cdot B \cdot (A \cdot D - B \cdot C)}{\sqrt{\left[2 \cdot B \cdot (A \cdot D - B \cdot C) \right]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

$$Num = -1 \quad Den = -1 \quad L = 1$$

$$L - \frac{\sqrt{B^2 \cdot (A \cdot D - B \cdot C)^2} \cdot \left[D \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C \cdot D + 2 \cdot A \cdot D \cdot N_u - 2 \cdot B \cdot C \cdot N_u \right]}{B \cdot \sqrt{\left[2 \cdot N_u \cdot (A \cdot D - B \cdot C) + D \cdot \sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} - B \cdot C \cdot D \right]^2} \cdot (A \cdot D - B \cdot C)} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

1, 0, 0, 0:

$$-\frac{\sqrt{(A-1)^2} \cdot \left[2 \cdot N_u - 2 \cdot A \cdot N_u - \sqrt{-(2 \cdot A - 1) \cdot (2 \cdot A - 3)} + 1 \right]}{\sqrt{\left[\sqrt{-(2 \cdot A - 1) \cdot (2 \cdot A - 3)} + 2 \cdot N_u \cdot (A - 1) - 1 \right]^2 \cdot (A - 1)}}$$

0, 2, 0, 0:

$$\frac{\sqrt{B^2 \cdot (B-1)^2} \cdot \left[B - 2 \cdot N_u - \sqrt{-(B-2) \cdot (3 \cdot B - 2)} + 2 \cdot B \cdot N_u \right]}{B \cdot (B-1) \cdot \sqrt{\left[B - \sqrt{-(B-2) \cdot (3 \cdot B - 2)} + 2 \cdot N_u \cdot (B-1) \right]^2}}$$

1, 2, 0, 0:

$$-\frac{\sqrt{B^2 \cdot (A-B)^2} \cdot \left[B - 2 \cdot A \cdot N_u + 2 \cdot B \cdot N_u - \sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)} \right]}{B \cdot \sqrt{\left[\sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)} - B + 2 \cdot N_u \cdot (A - B) \right]^2 \cdot (A - B)}}$$

0, 0, 3, 0:

$$\frac{\sqrt{(C-1)^2} \cdot \left[C - 2 \cdot N_u - \sqrt{-(C-2) \cdot (3 \cdot C - 2)} + 2 \cdot C \cdot N_u \right]}{(C-1) \cdot \sqrt{\left[C - \sqrt{-(C-2) \cdot (3 \cdot C - 2)} + 2 \cdot N_u \cdot (C-1) \right]^2}}$$

1, 0, 3, 0:

$$-\frac{\sqrt{(A-C)^2} \cdot \left[C - 2 \cdot A \cdot N_u + 2 \cdot C \cdot N_u - \sqrt{(2 \cdot A - 3 \cdot C) \cdot (C - 2 \cdot A)} \right]}{\sqrt{\left[\sqrt{(2 \cdot A - 3 \cdot C) \cdot (C - 2 \cdot A)} - C + 2 \cdot N_u \cdot (A - C) \right]^2 \cdot (A - C)}}$$

0, 2, 3, 0:

$$\frac{\sqrt{B^2 \cdot (B \cdot C - 1)^2} \cdot \left[2 \cdot N_u + \sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} - B \cdot C - 2 \cdot B \cdot C \cdot N_u \right]}{B \cdot \sqrt{\left[B \cdot C - \sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} + 2 \cdot N_u \cdot (B \cdot C - 1) \right]^2 \cdot (B \cdot C - 1)}}$$

1, 2, 3, 0:

$$-\frac{\sqrt{B^2 \cdot (A - B \cdot C)^2} \cdot \left[B \cdot C - 2 \cdot A \cdot N_u - \sqrt{-(2 \cdot A - B \cdot C) \cdot (2 \cdot A - 3 \cdot B \cdot C)} + 2 \cdot B \cdot C \cdot N_u \right]}{B \cdot (A - B \cdot C) \cdot \sqrt{\left[\sqrt{-(2 \cdot A - B \cdot C) \cdot (2 \cdot A - 3 \cdot B \cdot C)} - B \cdot C + 2 \cdot N_u \cdot (A - B \cdot C) \right]^2}}$$



$$\mathbf{0}, \mathbf{0}, \mathbf{0}, \mathbf{4}: \quad -\frac{\sqrt{(\mathbf{D}-1)^2} \cdot [\mathbf{D} + 2 \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{D} \cdot \sqrt{-(2 \cdot \mathbf{D}-1) \cdot (2 \cdot \mathbf{D}-3)} - 2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}]}{(\mathbf{D}-1) \cdot \sqrt{[\mathbf{D} \cdot \sqrt{-(2 \cdot \mathbf{D}-1) \cdot (2 \cdot \mathbf{D}-3)} - \mathbf{D} + 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D}-1)]^2}}$$

$$\mathbf{1, 0, 0, 4:} \quad \frac{\sqrt{(\mathbf{A} \cdot \mathbf{D} - 1)^2} \cdot [\mathbf{D} + 2 \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{D} \cdot \sqrt{-(2 \cdot \mathbf{A} \cdot \mathbf{D} - 1) \cdot (2 \cdot \mathbf{A} \cdot \mathbf{D} - 3)} - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}]}{\sqrt{[2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{D} - 1) - \mathbf{D} + \mathbf{D} \cdot \sqrt{-(2 \cdot \mathbf{A} \cdot \mathbf{D} - 1) \cdot (2 \cdot \mathbf{A} \cdot \mathbf{D} - 3)}]^2} \cdot (\mathbf{A} \cdot \mathbf{D} - 1)}$$

$$\mathbf{0}, 2, \mathbf{0}, 4: \quad \frac{\sqrt{\mathbf{B}^2 \cdot (\mathbf{B} - \mathbf{D})^2} \cdot [\mathbf{D} \cdot \sqrt{-(3 \cdot \mathbf{B} - 2 \cdot \mathbf{D}) \cdot (\mathbf{B} - 2 \cdot \mathbf{D})} - \mathbf{B} \cdot \mathbf{D} - 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} + 2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}]}{\mathbf{B} \cdot \sqrt{[\mathbf{B} \cdot \mathbf{D} - \mathbf{D} \cdot \sqrt{-(3 \cdot \mathbf{B} - 2 \cdot \mathbf{D}) \cdot (\mathbf{B} - 2 \cdot \mathbf{D})} + 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} - \mathbf{D})]^2} \cdot (\mathbf{B} - \mathbf{D})}$$

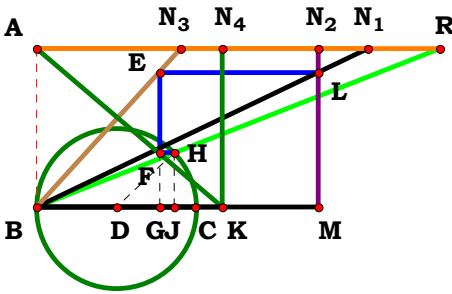
$$\mathbf{1}, \mathbf{2}, \mathbf{0}, \mathbf{4}: \frac{\sqrt{\mathbf{B}^2 \cdot (\mathbf{B} - \mathbf{A} \cdot \mathbf{D})^2} \cdot [\mathbf{B} \cdot \mathbf{D} + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{D} \cdot \sqrt{-(\mathbf{B} - 2 \cdot \mathbf{A} \cdot \mathbf{D}) \cdot (3 \cdot \mathbf{B} - 2 \cdot \mathbf{A} \cdot \mathbf{D})} - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}]}{\mathbf{B} \cdot \sqrt{[\mathbf{B} \cdot \mathbf{D} - \mathbf{D} \cdot \sqrt{-(\mathbf{B} - 2 \cdot \mathbf{A} \cdot \mathbf{D}) \cdot (3 \cdot \mathbf{B} - 2 \cdot \mathbf{A} \cdot \mathbf{D})} + 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} - \mathbf{A} \cdot \mathbf{D})]^2} \cdot (\mathbf{B} - \mathbf{A} \cdot \mathbf{D})}$$

$$\mathbf{0}, \mathbf{0}, \mathbf{3}, \mathbf{4}: \frac{\sqrt{(\mathbf{C}-\mathbf{D})^2} \cdot \left[\mathbf{D} \cdot \sqrt{-(\mathbf{3} \cdot \mathbf{C} - 2 \cdot \mathbf{D}) \cdot (\mathbf{C} - 2 \cdot \mathbf{D})} - \mathbf{C} \cdot \mathbf{D} - 2 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} + 2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right]}{\sqrt{\left[\mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \sqrt{-(\mathbf{3} \cdot \mathbf{C} - 2 \cdot \mathbf{D}) \cdot (\mathbf{C} - 2 \cdot \mathbf{D})} + 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \right]^2} \cdot (\mathbf{C} - \mathbf{D})}$$

$$\mathbf{1}, \mathbf{0}, \mathbf{3}, \mathbf{4}: \frac{\sqrt{(\mathbf{C} - \mathbf{A} \cdot \mathbf{D})^2} \cdot [\mathbf{C} \cdot \mathbf{D} + 2 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{D} \cdot \sqrt{-(\mathbf{C} - 2 \cdot \mathbf{A} \cdot \mathbf{D}) \cdot (\mathbf{3} \cdot \mathbf{C} - 2 \cdot \mathbf{A} \cdot \mathbf{D})} - 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}}]}{\sqrt{[\mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \sqrt{-(\mathbf{C} - 2 \cdot \mathbf{A} \cdot \mathbf{D}) \cdot (\mathbf{3} \cdot \mathbf{C} - 2 \cdot \mathbf{A} \cdot \mathbf{D})} + 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{A} \cdot \mathbf{D})]^2 \cdot (\mathbf{C} - \mathbf{A} \cdot \mathbf{D})}}$$

$$\mathbf{0}, 2, 3, 4: \frac{\sqrt{\mathbf{B}^2 \cdot (\mathbf{D} - \mathbf{B} \cdot \mathbf{C})^2} \cdot \left[\mathbf{D} \cdot \sqrt{-(2 \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{C}) \cdot (2 \cdot \mathbf{D} - 3 \cdot \mathbf{B} \cdot \mathbf{C})} + 2 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - 2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \right]}{\mathbf{B} \cdot (\mathbf{D} - \mathbf{B} \cdot \mathbf{C}) \cdot \sqrt{\left[\mathbf{D} \cdot \sqrt{-(2 \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{C}) \cdot (2 \cdot \mathbf{D} - 3 \cdot \mathbf{B} \cdot \mathbf{C})} + 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D} - \mathbf{B} \cdot \mathbf{C}) - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \right]^2}}$$

$$\mathbf{1, 2, 3, 4:} \quad \frac{\sqrt{\mathbf{B}^2 \cdot (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{C})^2} \cdot \left[\mathbf{D} \cdot \sqrt{(\mathbf{B} \cdot \mathbf{C} - 2 \cdot \mathbf{A} \cdot \mathbf{D}) \cdot (2 \cdot \mathbf{A} \cdot \mathbf{D} - 3 \cdot \mathbf{B} \cdot \mathbf{C})} - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} + 2 \cdot \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} - 2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \right]}{\mathbf{B} \cdot \sqrt{\left[2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{C}) + \mathbf{D} \cdot \sqrt{(\mathbf{B} \cdot \mathbf{C} - 2 \cdot \mathbf{A} \cdot \mathbf{D}) \cdot (2 \cdot \mathbf{A} \cdot \mathbf{D} - 3 \cdot \mathbf{B} \cdot \mathbf{C})} - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \right]^2} \cdot (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{C})}$$



N₁ = 2.09091
N₂ = 1.77778
N₃ = 0.90909
N₄ = 1.17172
R = 2.54547

Unit. AB := 1 Given. N₁ := 2.09091 N₂ := 1.77778 N₃ := .90909

N₄ := 1.17172

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + B \cdot C}{2 \cdot (B \cdot C - A \cdot D)} = 2.545454$$

$$\text{Num} := \frac{\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + B \cdot C}{\sqrt{[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + B \cdot C]^2}}$$

$$\text{Den} := \frac{2 \cdot (B \cdot C - A \cdot D)}{\sqrt{[2 \cdot (B \cdot C - A \cdot D)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{(2 \cdot A \cdot D - 2 \cdot B \cdot C)^2} \cdot [\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + B \cdot C]}{2 \cdot (B \cdot C - A \cdot D) \cdot \sqrt{[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + B \cdot C]^2}} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:

0

1, 0, 0, 0:

$$\frac{\sqrt{(2 \cdot A - 2)^2} \cdot [\sqrt{-(2 \cdot A - 1) \cdot (2 \cdot A - 3)} + 1]}{\sqrt{[\sqrt{-(2 \cdot A - 1) \cdot (2 \cdot A - 3)} + 1]^2 \cdot (2 \cdot A - 2)}}$$

0, 2, 0, 0:

$$\frac{\sqrt{(2 \cdot B - 2)^2} \cdot [B + \sqrt{-(B - 2) \cdot (3 \cdot B - 2)}]}{\sqrt{[B + \sqrt{-(B - 2) \cdot (3 \cdot B - 2)}]^2 \cdot (2 \cdot B - 2)}}$$

1, 2, 0, 0:

$$\frac{[B + \sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)}] \cdot \sqrt{(2 \cdot A - 2 \cdot B)^2}}{(2 \cdot A - 2 \cdot B) \cdot \sqrt{[B + \sqrt{(2 \cdot A - 3 \cdot B) \cdot (B - 2 \cdot A)}]^2}}$$

0, 0, 3, 0:

$$\frac{\sqrt{(2 \cdot C - 2)^2} \cdot [C + \sqrt{-(C - 2) \cdot (3 \cdot C - 2)}]}{\sqrt{[C + \sqrt{-(C - 2) \cdot (3 \cdot C - 2)}]^2 \cdot (2 \cdot C - 2)}}$$

1, 0, 3, 0:

$$\frac{[C + \sqrt{(2 \cdot A - 3 \cdot C) \cdot (C - 2 \cdot A)}] \cdot \sqrt{(2 \cdot A - 2 \cdot C)^2}}{(2 \cdot A - 2 \cdot C) \cdot \sqrt{[C + \sqrt{(2 \cdot A - 3 \cdot C) \cdot (C - 2 \cdot A)}]^2}}$$

0, 2, 3, 0:

$$\frac{\sqrt{(2 \cdot B \cdot C - 2)^2} \cdot [\sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} + B \cdot C]}{\sqrt{[\sqrt{-(B \cdot C - 2) \cdot (3 \cdot B \cdot C - 2)} + B \cdot C]^2 \cdot (2 \cdot B \cdot C - 2)}}$$

1, 2, 3, 0:

$$\frac{\sqrt{(2 \cdot A \cdot 1 - 2 \cdot B \cdot C)^2} \cdot [\sqrt{(B \cdot C - 2 \cdot A \cdot 1) \cdot (2 \cdot A \cdot 1 - 3 \cdot B \cdot C)} + B \cdot C]}{2 \cdot (B \cdot C - A \cdot 1) \cdot \sqrt{[\sqrt{(B \cdot C - 2 \cdot A \cdot 1) \cdot (2 \cdot A \cdot 1 - 3 \cdot B \cdot C)} + B \cdot C]^2}}$$

0, 0, 0, 4:

$$\frac{\sqrt{(2 \cdot D - 2)^2} \cdot [\sqrt{-(2 \cdot D - 1) \cdot (2 \cdot D - 3)} + 1]}{\sqrt{[\sqrt{-(2 \cdot D - 1) \cdot (2 \cdot D - 3)} + 1]^2 \cdot (2 \cdot D - 2)}}$$

1, 0, 0, 4:

$$\frac{\sqrt{(2 \cdot A \cdot D - 2)^2} \cdot [\sqrt{-(2 \cdot A \cdot D - 1) \cdot (2 \cdot A \cdot D - 3)} + 1]}{\sqrt{[\sqrt{-(2 \cdot A \cdot D - 1) \cdot (2 \cdot A \cdot D - 3)} + 1]^2 \cdot (2 \cdot A \cdot D - 2)}}$$

0, 2, 0, 4:

$$\frac{[B + \sqrt{-(3 \cdot B - 2 \cdot D) \cdot (B - 2 \cdot D)}] \cdot \sqrt{(2 \cdot B - 2 \cdot D)^2}}{(2 \cdot B - 2 \cdot D) \cdot \sqrt{[B + \sqrt{-(3 \cdot B - 2 \cdot D) \cdot (B - 2 \cdot D)}]^2}}$$

1, 2, 0, 4:

$$\frac{\sqrt{(2 \cdot B - 2 \cdot A \cdot D)^2} \cdot [B + \sqrt{-(B - 2 \cdot A \cdot D) \cdot (3 \cdot B - 2 \cdot A \cdot D)}]}{\sqrt{[B + \sqrt{-(B - 2 \cdot A \cdot D) \cdot (3 \cdot B - 2 \cdot A \cdot D)}]^2 \cdot (2 \cdot B - 2 \cdot A \cdot D)}}$$

0, 0, 3, 4:

$$\frac{[C + \sqrt{-(3 \cdot C - 2 \cdot D) \cdot (C - 2 \cdot D)}] \cdot \sqrt{(2 \cdot C - 2 \cdot D)^2}}{(2 \cdot C - 2 \cdot D) \cdot \sqrt{[C + \sqrt{-(3 \cdot C - 2 \cdot D) \cdot (C - 2 \cdot D)}]^2}}$$

1, 0, 3, 4:

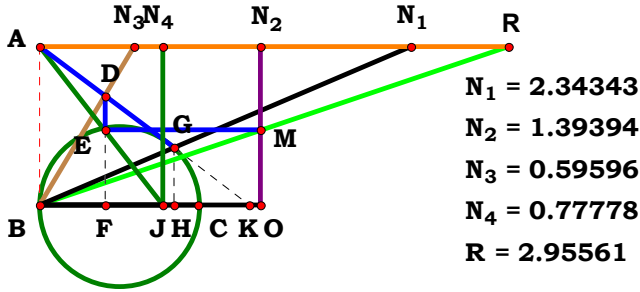
$$\frac{\sqrt{(2 \cdot C - 2 \cdot A \cdot D)^2} \cdot [C + \sqrt{-(C - 2 \cdot A \cdot D) \cdot (3 \cdot C - 2 \cdot A \cdot D)}]}{\sqrt{[C + \sqrt{-(C - 2 \cdot A \cdot D) \cdot (3 \cdot C - 2 \cdot A \cdot D)}]^2 \cdot (2 \cdot C - 2 \cdot A \cdot D)}}$$

0, 2, 3, 4:

$$\frac{[B \cdot C + \sqrt{-(2 \cdot D - B \cdot C) \cdot (2 \cdot D - 3 \cdot B \cdot C)}] \cdot \sqrt{(2 \cdot D - 2 \cdot B \cdot C)^2}}{\sqrt{[B \cdot C + \sqrt{-(2 \cdot D - B \cdot C) \cdot (2 \cdot D - 3 \cdot B \cdot C)}]^2 \cdot (2 \cdot D - 2 \cdot B \cdot C)}}$$

1, 2, 3, 4:

$$\frac{\sqrt{(2 \cdot A \cdot D - 2 \cdot B \cdot C)^2} \cdot [\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + B \cdot C]}{2 \cdot (B \cdot C - A \cdot D) \cdot \sqrt{[\sqrt{(B \cdot C - 2 \cdot A \cdot D) \cdot (2 \cdot A \cdot D - 3 \cdot B \cdot C)} + B \cdot C]^2}}$$



Unit. $AB := 1$ Given. $N_1 := 2.34343$ $N_2 := 1.39394$ $N_3 := .59596$
 $N_4 := .77778$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{N_u \cdot \left(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u \right)}{B \cdot \left(A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u \right)} = 2.955605$$

$$Num := \frac{N_u \cdot \left(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u \right)}{\sqrt{\left[N_u \cdot \left(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u \right) \right]^2}}$$

$$Den := \frac{B \cdot \left(A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u \right)}{\sqrt{\left[B \cdot \left(A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u \right) \right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u \right)^2} \cdot \left(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u \right)}{B \cdot \sqrt{N_u^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u \right)^2} \cdot \left(A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u \right)} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0:

$$\frac{N_u \cdot (N_u^2 + 1) \cdot \sqrt{(N_u^2 - N_u + 1)^2}}{\sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - N_u + 1)}}$$

1, 0, 0, 0:

$$\frac{N_u \cdot \sqrt{(A^2 - A \cdot N_u + N_u^2)^2} \cdot (A^2 - A \cdot N_u + N_u^2 + N_u)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2 + N_u)^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}$$

0, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{B^2 \cdot (N_u^2 - N_u + 1)^2} \cdot (N_u^2 + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 + 1)^2 \cdot (N_u^2 - N_u + 1)}}$$

1, 2, 0, 0:

$$\frac{N_u \cdot \sqrt{B^2 \cdot (A^2 - A \cdot N_u + N_u^2)^2} \cdot (A^2 - A \cdot N_u + N_u^2 + N_u)}{B \cdot \sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2 + N_u)^2 \cdot (A^2 - A \cdot N_u + N_u^2)}}$$

0, 0, 3, 0:

$$\frac{N_u \cdot \sqrt{(N_u^2 - 2 \cdot N_u + C \cdot N_u + 1)^2} \cdot (N_u^2 - N_u + C \cdot N_u + 1)}{\sqrt{N_u^2 \cdot (N_u^2 - N_u + C \cdot N_u + 1)^2 \cdot (N_u^2 - 2 \cdot N_u + C \cdot N_u + 1)}}$$

1, 0, 3, 0:

$$\frac{N_u \cdot \sqrt{(A^2 - N_u + N_u^2 - A \cdot N_u + C \cdot N_u)^2} \cdot (A^2 - A \cdot N_u + N_u^2 + C \cdot N_u)}{\sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2 + C \cdot N_u)^2 \cdot (A^2 - N_u + N_u^2 - A \cdot N_u + C \cdot N_u)}}$$

0, 2, 3, 0:

$$\frac{N_u \cdot \sqrt{B^2 \cdot (N_u^2 - 2 \cdot N_u + C \cdot N_u + 1)^2} \cdot (N_u^2 - N_u + C \cdot N_u + 1)}{B \cdot \sqrt{N_u^2 \cdot (N_u^2 - N_u + C \cdot N_u + 1)^2 \cdot (N_u^2 - 2 \cdot N_u + C \cdot N_u + 1)}}$$

1, 2, 3, 0:

$$\frac{N_u \cdot \sqrt{B^2 \cdot (A^2 - N_u + N_u^2 - A \cdot N_u + C \cdot N_u)^2} \cdot (A^2 - A \cdot N_u + N_u^2 + C \cdot N_u)}{B \cdot \sqrt{N_u^2 \cdot (A^2 - A \cdot N_u + N_u^2 + C \cdot N_u)^2 \cdot (A^2 - N_u + N_u^2 - A \cdot N_u + C \cdot N_u)}}$$



$$\begin{array}{l}
 \mathbf{0, 0, 0, 4:} \quad \frac{N_u \cdot \sqrt{\left(N_u^2 - D \cdot N_u + 1\right)^2 \cdot \left(N_u^2 + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 + 1\right)^2 \cdot \left(N_u^2 - D \cdot N_u + 1\right)}}
 \end{array}$$

$$\begin{array}{l}
 \mathbf{1, 0, 0, 4:} \quad \frac{N_u \cdot \sqrt{\left(N_u + A^2 + N_u^2 - A \cdot N_u - D \cdot N_u\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + N_u\right)}}{\sqrt{N_u^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + N_u\right)^2 \cdot \left(N_u + A^2 + N_u^2 - A \cdot N_u - D \cdot N_u\right)}}
 \end{array}$$

$$\begin{array}{l}
 \mathbf{0, 2, 0, 4:} \quad \frac{N_u \cdot \sqrt{B^2 \cdot \left(N_u^2 - D \cdot N_u + 1\right)^2 \cdot \left(N_u^2 + 1\right)}}{B \cdot \sqrt{N_u^2 \cdot \left(N_u^2 + 1\right)^2 \cdot \left(N_u^2 - D \cdot N_u + 1\right)}}
 \end{array}$$

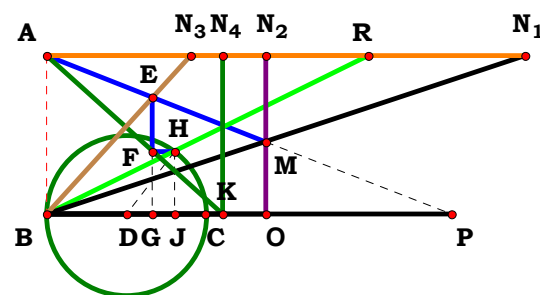
$$\begin{array}{l}
 \mathbf{1, 2, 0, 4:} \quad \frac{N_u \cdot \sqrt{B^2 \cdot \left(N_u + A^2 + N_u^2 - A \cdot N_u - D \cdot N_u\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + N_u\right)}}{B \cdot \sqrt{N_u^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + N_u\right)^2 \cdot \left(N_u + A^2 + N_u^2 - A \cdot N_u - D \cdot N_u\right)}}
 \end{array}$$

$$\begin{array}{l}
 \mathbf{0, 0, 3, 4:} \quad \frac{N_u \cdot \sqrt{\left(N_u^2 - N_u + C \cdot N_u - D \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - N_u + C \cdot N_u + 1\right)}}{\sqrt{N_u^2 \cdot \left(N_u^2 - N_u + C \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - N_u + C \cdot N_u - D \cdot N_u + 1\right)}}
 \end{array}$$

$$\begin{array}{l}
 \mathbf{1, 0, 3, 4:} \quad \frac{N_u \cdot \sqrt{\left(A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u\right)}}{\sqrt{N_u^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u\right)^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u\right)}}
 \end{array}$$

$$\begin{array}{l}
 \mathbf{0, 2, 3, 4:} \quad \frac{N_u \cdot \sqrt{B^2 \cdot \left(N_u^2 - N_u + C \cdot N_u - D \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - N_u + C \cdot N_u + 1\right)}}{B \cdot \sqrt{N_u^2 \cdot \left(N_u^2 - N_u + C \cdot N_u + 1\right)^2 \cdot \left(N_u^2 - N_u + C \cdot N_u - D \cdot N_u + 1\right)}}
 \end{array}$$

$$\begin{array}{l}
 \mathbf{1, 2, 3, 4:} \quad \frac{N_u \cdot \sqrt{B^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u\right)^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u\right)}}{B \cdot \sqrt{N_u^2 \cdot \left(A^2 - A \cdot N_u + N_u^2 + C \cdot N_u\right)^2 \cdot \left(A^2 + N_u^2 - A \cdot N_u + C \cdot N_u - D \cdot N_u\right)}}
 \end{array}$$



N₁ = 3.02020
N₂ = 1.38384
N₃ = 0.90909
N₄ = 1.11111
R = 2.02852

Unit. AB := 1 Given. $N_1 := 3.02020$ $N_2 := 1.38384$ $N_3 := .90909$
$$\mathbf{N}_4 := \mathbf{1.11111}$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\mathbf{A - B - C - \sqrt{(B - A + C - 2 \cdot D) \cdot (3 \cdot A - 3 \cdot B - 3 \cdot C + 2 \cdot D)}}}{\mathbf{2 \cdot (A - B - C + D)}} = \mathbf{2.028529}$$

$$\mathbf{Num} := \frac{\mathbf{A} - \mathbf{B} - \mathbf{C} - \sqrt{(\mathbf{B} - \mathbf{A} + \mathbf{C} - 2 \cdot \mathbf{D}) \cdot (\mathbf{3} \cdot \mathbf{A} - \mathbf{3} \cdot \mathbf{B} - \mathbf{3} \cdot \mathbf{C} + 2 \cdot \mathbf{D})}}{\sqrt{\left[\mathbf{A} - \mathbf{B} - \mathbf{C} - \sqrt{(\mathbf{B} - \mathbf{A} + \mathbf{C} - 2 \cdot \mathbf{D}) \cdot (\mathbf{3} \cdot \mathbf{A} - \mathbf{3} \cdot \mathbf{B} - \mathbf{3} \cdot \mathbf{C} + 2 \cdot \mathbf{D})}\right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot (\mathbf{A} - \mathbf{B} - \mathbf{C} + \mathbf{D})}{\sqrt{[2 \cdot (\mathbf{A} - \mathbf{B} - \mathbf{C} + \mathbf{D})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = -1 Den = -1 L = 1

$$\mathbf{L} - \frac{\sqrt{(2 \cdot \mathbf{A} - 2 \cdot \mathbf{B} - 2 \cdot \mathbf{C} + 2 \cdot \mathbf{D})^2} \cdot [\mathbf{A} - \mathbf{B} - \mathbf{C} - \sqrt{-(\mathbf{A} - \mathbf{B} - \mathbf{C} + 2 \cdot \mathbf{D}) \cdot (3 \cdot \mathbf{A} - 3 \cdot \mathbf{B} - 3 \cdot \mathbf{C} + 2 \cdot \mathbf{D})}]}{2 \cdot \sqrt{[\mathbf{B} - \mathbf{A} + \mathbf{C} + \sqrt{-(\mathbf{A} - \mathbf{B} - \mathbf{C} + 2 \cdot \mathbf{D}) \cdot (3 \cdot \mathbf{A} - 3 \cdot \mathbf{B} - 3 \cdot \mathbf{C} + 2 \cdot \mathbf{D})}]^2} \cdot (\mathbf{A} - \mathbf{B} - \mathbf{C} + \mathbf{D})} = 0$$



For 4 variables there are 16 subsets.

0, 0, 0, 0: 0

1, 0, 0, 0:
$$-\frac{\sqrt{(2 \cdot A - 2)^2} \cdot [\sqrt{-A \cdot (3 \cdot A - 4)} - A + 2]}{2 \cdot (A - 1) \cdot \sqrt{[\sqrt{-A \cdot (3 \cdot A - 4)} - A + 2]^2}}$$

0, 2, 0, 0: 0

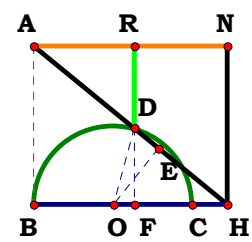
1, 2, 0, 0:
$$-\frac{\sqrt{(2 \cdot A - 2)^2} \cdot [\sqrt{-A \cdot (3 \cdot A - 4)} - A + 2]}{2 \cdot (A - 1) \cdot \sqrt{[\sqrt{-A \cdot (3 \cdot A - 4)} - A + 2]^2}}$$

0, 0, 3, 0:
$$\frac{\sqrt{(2 \cdot B + 2 \cdot C - 4)^2} \cdot [B + C + \sqrt{-(3 \cdot B + 3 \cdot C - 5) \cdot (B + C - 3)} - 1]}{2 \cdot \sqrt{[B + C + \sqrt{-(3 \cdot B + 3 \cdot C - 5) \cdot (B + C - 3)} - 1]^2} \cdot (B + C - 2)}$$

1, 0, 3, 0:
$$-\frac{\sqrt{(2 \cdot A - 2 \cdot B - 2 \cdot C + 2)^2} \cdot [B - A + C + \sqrt{-(3 \cdot A - 3 \cdot B - 3 \cdot C + 2) \cdot (A - B - C + 2)}]}{2 \cdot \sqrt{[B - A + C + \sqrt{-(3 \cdot A - 3 \cdot B - 3 \cdot C + 2) \cdot (A - B - C + 2)}]^2} \cdot (A - B - C + 1)}$$

0, 2, 3, 0:
$$\frac{\sqrt{(2 \cdot B + 2 \cdot C - 4)^2} \cdot [B + C + \sqrt{-(3 \cdot B + 3 \cdot C - 5) \cdot (B + C - 3)} - 1]}{2 \cdot \sqrt{[B + C + \sqrt{-(3 \cdot B + 3 \cdot C - 5) \cdot (B + C - 3)} - 1]^2} \cdot (B + C - 2)}$$

1, 2, 3, 0:
$$-\frac{\sqrt{(2 \cdot A - 2 \cdot B - 2 \cdot C + 2)^2} \cdot [B - A + C + \sqrt{-(3 \cdot A - 3 \cdot B - 3 \cdot C + 2) \cdot (A - B - C + 2)}]}{2 \cdot \sqrt{[B - A + C + \sqrt{-(3 \cdot A - 3 \cdot B - 3 \cdot C + 2) \cdot (A - B - C + 2)}]^2} \cdot (A - B - C + 1)}$$



N = 1.22222
R = 0.63319

Unit. AB := 1 Given. N := 1.22222

$N_u := 3 \quad A := \frac{N_u}{N}$

Descriptions.

$$\frac{N_u \cdot \left[2 \cdot A + N_u - \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]}{2 \cdot (A^2 + N_u^2)} = 0.633191$$

$$\text{Num} := \frac{N_u \cdot \left[2 \cdot A + N_u - \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]}{\sqrt{\left[N_u \cdot \left[2 \cdot A + N_u - \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right] \right]^2}}$$

$$\text{Den} := \frac{2 \cdot (A^2 + N_u^2)}{\sqrt{\left[2 \cdot (A^2 + N_u^2) \right]^2}}$$

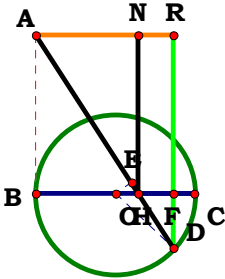
$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\frac{N_u \cdot \sqrt{\left(2 \cdot A^2 + 2 \cdot N_u^2 \right)^2} \cdot \left[2 \cdot A + N_u - \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]}{2 \cdot \sqrt{N_u^2} \cdot \left[2 \cdot A + N_u - \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]^2 \cdot (A^2 + N_u^2)} = 1$$

$$L - \frac{N_u \cdot \sqrt{\left(2 \cdot A^2 + 2 \cdot N_u^2 \right)^2} \cdot \left[2 \cdot A + N_u - \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]}{2 \cdot \sqrt{N_u^2} \cdot \left[2 \cdot A + N_u - \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]^2 \cdot (A^2 + N_u^2)} = 0$$



Unit. **AB** := 1 Given. **N** := .64646

$$N = 0.64646 \qquad N_{\mathbf{u}} := 3 \qquad A := \frac{N_{\mathbf{u}}}{N}$$

Descriptions.

$$\frac{N_{\mathbf{u}} \cdot \left[2 \cdot A + N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}} \cdot \left(4 \cdot A - 3 \cdot N_{\mathbf{u}} \right)} \right]}{2 \cdot \left(A^2 + N_{\mathbf{u}}^2 \right)} = 0.8664 \qquad \text{Num} := \frac{N_{\mathbf{u}} \cdot \left[2 \cdot A + N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}} \cdot \left(4 \cdot A - 3 \cdot N_{\mathbf{u}} \right)} \right]}{\sqrt{\left[N_{\mathbf{u}} \cdot \left[2 \cdot A + N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}} \cdot \left(4 \cdot A - 3 \cdot N_{\mathbf{u}} \right)} \right] \right]^2}} \qquad \text{Den} := \frac{2 \cdot \left(A^2 + N_{\mathbf{u}}^2 \right)}{\sqrt{\left[2 \cdot \left(A^2 + N_{\mathbf{u}}^2 \right) \right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

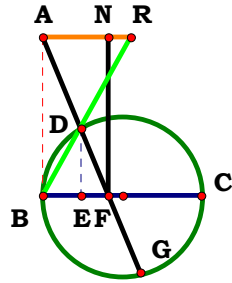
Definitions.

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$\frac{N_{\mathbf{u}} \cdot \sqrt{\left(2 \cdot A^2 + 2 \cdot N_{\mathbf{u}}^2 \right)^2} \cdot \left[2 \cdot A + N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}} \cdot \left(4 \cdot A - 3 \cdot N_{\mathbf{u}} \right)} \right]}{2 \cdot \left(A^2 + N_{\mathbf{u}}^2 \right) \cdot \sqrt{N_{\mathbf{u}}^2 \cdot \left[2 \cdot A + N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}} \cdot \left(4 \cdot A - 3 \cdot N_{\mathbf{u}} \right)} \right]^2}} = 1$$

$$L - \frac{N_{\mathbf{u}} \cdot \sqrt{\left(2 \cdot A^2 + 2 \cdot N_{\mathbf{u}}^2 \right)^2} \cdot \left[2 \cdot A + N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}} \cdot \left(4 \cdot A - 3 \cdot N_{\mathbf{u}} \right)} \right]}{2 \cdot \left(A^2 + N_{\mathbf{u}}^2 \right) \cdot \sqrt{N_{\mathbf{u}}^2 \cdot \left[2 \cdot A + N_{\mathbf{u}} + \sqrt{N_{\mathbf{u}} \cdot \left(4 \cdot A - 3 \cdot N_{\mathbf{u}} \right)} \right]^2}} = 0$$

30BT9R2



Unit. $AB := 1$ **Given.** $N := .41414$

$$\mathbf{N} = 0.41414 \quad \mathbf{N}_{\mathbf{u}} := 3 \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

Descriptions.

$$\frac{N_u \cdot [\sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} - N_u - 2 \cdot A]}{A \cdot N_u - 2 \cdot N_u^2 - A \cdot \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)}} = 0.558594$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot [\sqrt{\mathbf{N_u} \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N_u})} - \mathbf{N_u} - 2 \cdot \mathbf{A}]}{\sqrt{[\mathbf{N_u} \cdot [\sqrt{\mathbf{N_u} \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N_u})} - \mathbf{N_u} - 2 \cdot \mathbf{A}]]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A} \cdot \mathbf{N_u} - 2 \cdot \mathbf{N_u}^2 - \mathbf{A} \cdot \sqrt{\mathbf{N_u} \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N_u})}}{\sqrt{[\mathbf{A} \cdot \mathbf{N_u} - 2 \cdot \mathbf{N_u}^2 - \mathbf{A} \cdot \sqrt{\mathbf{N_u} \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N_u})}]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

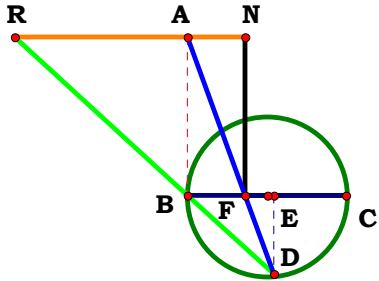
Num = -1 Den = -1 L = 1

$$\frac{\mathbf{N_u} \cdot \sqrt{\left[\mathbf{A} \cdot \sqrt{\mathbf{N_u} \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N_u})} + 2 \cdot \mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{N_u} \right]^2} \cdot \left[\sqrt{\mathbf{N_u} \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N_u})} - \mathbf{N_u} - 2 \cdot \mathbf{A} \right]}{\sqrt{\mathbf{N_u}^2} \cdot \left[2 \cdot \mathbf{A} + \mathbf{N_u} - \sqrt{\mathbf{N_u} \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N_u})} \right]^2 \cdot \left[\mathbf{A} \cdot \mathbf{N_u} - 2 \cdot \mathbf{N_u}^2 - \mathbf{A} \cdot \sqrt{\mathbf{N_u} \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N_u})} \right]} = 1$$

$$\mathbf{L} - \frac{\mathbf{N}_u \cdot \sqrt{\left[\mathbf{A} \cdot \sqrt{\mathbf{N}_u \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N}_u)} + 2 \cdot \mathbf{N}_u^2 - \mathbf{A} \cdot \mathbf{N}_u \right]^2} \cdot \left[\sqrt{\mathbf{N}_u \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N}_u)} - \mathbf{N}_u - 2 \cdot \mathbf{A} \right]}{\sqrt{\mathbf{N}_u^2} \cdot \left[2 \cdot \mathbf{A} + \mathbf{N}_u - \sqrt{\mathbf{N}_u \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N}_u)} \right]^2 \cdot \left[\mathbf{A} \cdot \mathbf{N}_u - 2 \cdot \mathbf{N}_u^2 - \mathbf{A} \cdot \sqrt{\mathbf{N}_u \cdot (4 \cdot \mathbf{A} - 3 \cdot \mathbf{N}_u)} \right]} = 0$$



30BT9R3



Unit. AB := 1 Given. N := .36364

$N = 0.36364$
 $R = -1.09384$ $N_u := 3$ $A := \frac{N_u}{N}$

Descriptions.

$$\frac{N_u \cdot \left[2 \cdot A + N_u + \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]}{2 \cdot N_u^2 - A \cdot \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} - A \cdot N_u} = -1.093848$$

$$\text{Num} := \frac{N_u \cdot \left[2 \cdot A + N_u + \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]}{\sqrt{\left[N_u \cdot \left[2 \cdot A + N_u + \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right] \right]^2}}$$

$$\text{Den} := \frac{2 \cdot N_u^2 - A \cdot \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} - A \cdot N_u}{\sqrt{\left[2 \cdot N_u^2 - A \cdot \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} - A \cdot N_u \right]^2}}$$

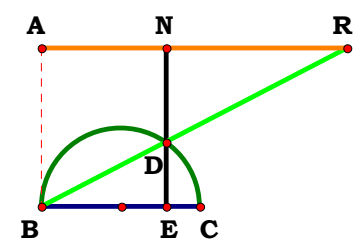
$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = -1 L = -1

$$\frac{N_u \cdot \sqrt{\left[A \cdot \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} - 2 \cdot N_u^2 + A \cdot N_u \right]^2} \cdot \left[2 \cdot A + N_u + \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]}{\sqrt{N_u^2 \cdot \left[2 \cdot A + N_u + \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]^2} \cdot \left[2 \cdot N_u^2 - A \cdot \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} - A \cdot N_u \right]} = -1$$

$$L - \frac{N_u \cdot \sqrt{\left[A \cdot \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} - 2 \cdot N_u^2 + A \cdot N_u \right]^2} \cdot \left[2 \cdot A + N_u + \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]}{\sqrt{N_u^2 \cdot \left[2 \cdot A + N_u + \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} \right]^2} \cdot \left[2 \cdot N_u^2 - A \cdot \sqrt{N_u \cdot (4 \cdot A - 3 \cdot N_u)} - A \cdot N_u \right]} = 0$$



Unit. $AB := 1$ Given. $N := .78788$

$N = 0.78788$
 $R = 1.92725$

$N_u := 3$ $A := \frac{N_u}{N}$

Descriptions.

$$\frac{N_u}{\sqrt{N_u \cdot (A - N_u)}} = 1.927255$$

$$Num := \frac{N_u}{\sqrt{(N_u)^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A - N_u)}}{\sqrt{[\sqrt{N_u \cdot (A - N_u)}]^2}}$$

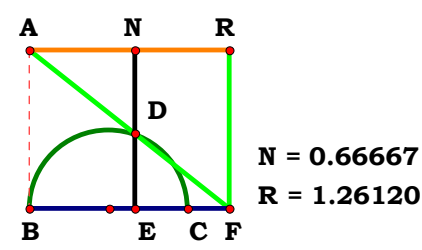
$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$\frac{N_u}{\sqrt{N_u^2}} = 1$$

$$L - \frac{N_u}{\sqrt{N_u^2}} = 0$$



Unit. $AB := 1$ Given. $N := .66667$

$$N_u := 3 \quad A := \frac{N_u}{N}$$

Descriptions.

$$\frac{N_u}{A - \sqrt{N_u \cdot (A - N_u)}} = 1.261207$$

$$\text{Num} := \frac{N_u}{\sqrt{(N_u)^2}}$$

$$\text{Den} := \frac{A - \sqrt{N_u \cdot (A - N_u)}}{\sqrt{[A - \sqrt{N_u \cdot (A - N_u)}]^2}}$$

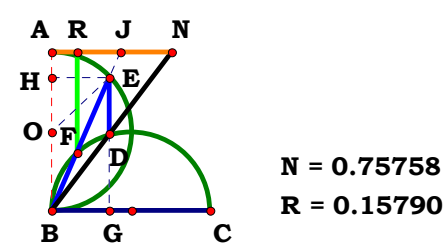
$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$

$$\frac{N_u \cdot \sqrt{[A - \sqrt{N_u \cdot (A - N_u)}]^2}}{\sqrt{N_u^2} \cdot [A - \sqrt{N_u \cdot (A - N_u)}]} = 1$$

$$L - \frac{N_u \cdot \sqrt{[A - \sqrt{N_u \cdot (A - N_u)}]^2}}{\sqrt{N_u^2} \cdot [A - \sqrt{N_u \cdot (A - N_u)}]} = 0$$



Unit. **AB** := 1 Given. **N** := .75758

N_u := 3 **A** := $\frac{N_u}{N}$

Descriptions.

$$\frac{A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2}{2 \cdot (A^2 + N_u^2)} = 0.157899$$

$$\text{Num} := \frac{A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2}{\sqrt{\left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]^2}}$$

$$\text{Den} := \frac{2 \cdot (A^2 + N_u^2)}{\sqrt{\left[2 \cdot (A^2 + N_u^2) \right]^2}}$$

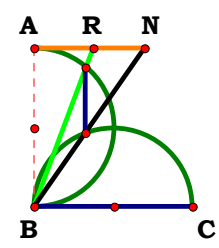
$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$\frac{\sqrt{\left(2 \cdot A^2 + 2 \cdot N_u^2 \right)^2} \cdot \left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]}{2 \cdot \sqrt{\left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]^2} \cdot (A^2 + N_u^2)} = 1$$

$$L - \frac{\sqrt{\left(2 \cdot A^2 + 2 \cdot N_u^2 \right)^2} \cdot \left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]}{2 \cdot \sqrt{\left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]^2} \cdot (A^2 + N_u^2)} = 0$$



N = 0.69697
R = 0.37225

Unit. AB := 1 Given. N := .69697

$N_u := 3 \quad A := \frac{N_u}{N}$

$$\frac{A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2}{2 \cdot N_u^2} = 0.372253$$

$$\text{Num} := \frac{A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2}{\sqrt{\left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]^2}}$$

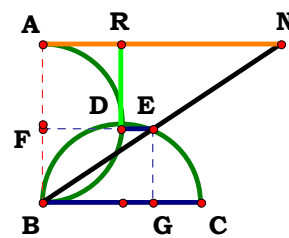
$$\text{Den} := \frac{2 \cdot N_u^2}{\sqrt{(2 \cdot N_u^2)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\frac{\sqrt{N_u^4} \cdot \left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]}{N_u^2 \cdot \sqrt{\left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]^2}} = 1$$

$$L - \frac{\sqrt{N_u^4} \cdot \left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]}{N_u^2 \cdot \sqrt{\left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2 \right]^2}} = 0$$



$N = 1.50505$
 $R = 0.49847$
 $N_u := 3$
 $A := \frac{N_u}{N}$

Unit. $AB := 1$ Given. $N := 1.50505$

Descriptions.

$$\frac{\sqrt{A \cdot N_u \cdot (A^2 - A \cdot N_u + N_u^2)}}{A^2 + N_u^2} = 0.498472$$

$$\text{Num} := \frac{\sqrt{A \cdot N_u \cdot (A^2 - A \cdot N_u + N_u^2)}}{\sqrt{\left[\sqrt{A \cdot N_u \cdot (A^2 - A \cdot N_u + N_u^2)}\right]^2}}$$

$$\text{Den} := \frac{A^2 + N_u^2}{\sqrt{(A^2 + N_u^2)^2}}$$

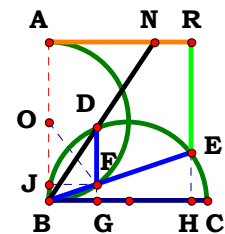
$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$\frac{\sqrt{(A^2 + N_u^2)^2}}{A^2 + N_u^2} = 1$$

$$L - \frac{\sqrt{(A^2 + N_u^2)^2}}{A^2 + N_u^2} = 0$$



N = 0.66667
R = 0.89411

Unit. AB := 1 Given. N := .66667

$$N_u := 3 \qquad A := \frac{N_u}{N}$$

Descriptions.

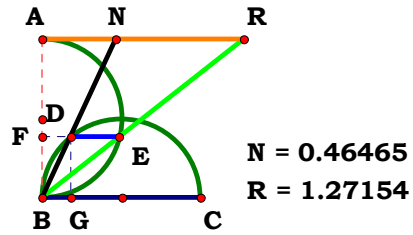
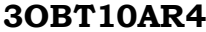
$$\frac{A^2 + \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2}{2 \cdot (A^2 + N_u^2)} = 0.894112 \qquad \text{Num} := \frac{A^2 + \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2}{\sqrt{\left[A^2 + \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]^2}} \qquad \text{Den} := \frac{2 \cdot (A^2 + N_u^2)}{\sqrt{\left[2 \cdot (A^2 + N_u^2)\right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$\frac{\sqrt{\left(2 \cdot A^2 + 2 \cdot N_u^2\right)^2} \cdot \left[A^2 + \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]}{2 \cdot (A^2 + N_u^2) \cdot \sqrt{\left[A^2 + \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]^2}} = 1$$

$$L - \frac{\sqrt{\left(2 \cdot A^2 + 2 \cdot N_u^2\right)^2} \cdot \left[A^2 + \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]}{2 \cdot (A^2 + N_u^2) \cdot \sqrt{\left[A^2 + \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]^2}} = 0$$



Unit. $AB := 1$ **Given.** $N := .46465$

$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

Descriptions.

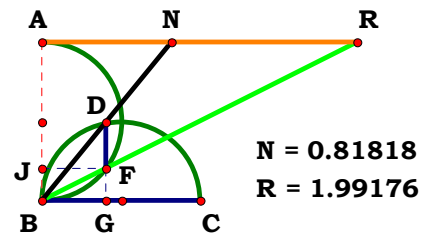
$$\frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}}{\sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}} = 1.271537 \quad \text{Num} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}}{\sqrt{\left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2)}\right]^2}} \quad \text{Den} := \frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}}{\sqrt{\left(\sqrt{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}\right)^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_u^2}}{\sqrt{\mathbf{A} \cdot \mathbf{N}_u}} = 1$$

$$\mathbf{L} - \frac{\sqrt{\mathbf{A} \cdot \mathbf{N}_u^2}}{\sqrt{\mathbf{A} \cdot \mathbf{N}_u}} = \mathbf{0}$$



Unit. **AB** := 1 Given. **N** := .81818

N_u := 3 **A** := $\frac{N_u}{N}$

Descriptions.

$$\frac{2 \cdot N_u^2}{A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2} = 1.991767$$

$$\text{Num} := \frac{2 \cdot N_u^2}{\sqrt{(2 \cdot N_u^2)^2}}$$

$$\text{Den} := \frac{A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2}{\sqrt{\left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]^2}}$$

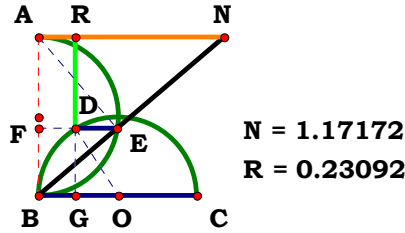
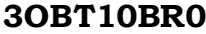
$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$\frac{N_u^2 \cdot \sqrt{\left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]^2}}{\sqrt{N_u^4 \cdot \left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]}} = 1$$

$$L - \frac{N_u^2 \cdot \sqrt{\left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]^2}}{\sqrt{N_u^4 \cdot \left[A^2 - \sqrt{(A + N_u) \cdot (A^2 + 3 \cdot N_u^2) \cdot (A - N_u)} + N_u^2\right]}} = 0$$


$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

Descriptions.

$$\frac{\mathbf{A}^2 + \mathbf{N}_u^2 - \sqrt{(\mathbf{N}_u - \mathbf{A}) \cdot (\mathbf{A} + \mathbf{N}_u) \cdot (3 \cdot \mathbf{A}^2 + \mathbf{N}_u^2)}}{2 \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)} = \mathbf{0.230918}$$

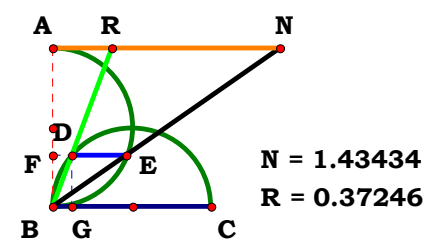
$$\mathbf{Num} := \frac{\mathbf{A}^2 + \mathbf{N}_u^2 - \sqrt{(\mathbf{N}_u - \mathbf{A}) \cdot (\mathbf{A} + \mathbf{N}_u) \cdot (3 \cdot \mathbf{A}^2 + \mathbf{N}_u^2)}}{\sqrt{[\mathbf{A}^2 + \mathbf{N}_u^2 - \sqrt{(\mathbf{N}_u - \mathbf{A}) \cdot (\mathbf{A} + \mathbf{N}_u) \cdot (3 \cdot \mathbf{A}^2 + \mathbf{N}_u^2)}]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\sqrt{[2 \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\begin{aligned} & \frac{\sqrt{\left(2 \cdot \mathbf{A}^2 + 2 \cdot \mathbf{N}_{\mathbf{u}}^2\right)^2 \cdot \left[\mathbf{A}^2 - \sqrt{-\left(\mathbf{A} + \mathbf{N}_{\mathbf{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right) \cdot \left(\mathbf{A} - \mathbf{N}_{\mathbf{u}}\right) + \mathbf{N}_{\mathbf{u}}^2}\right]}}{2 \cdot \sqrt{\left[\mathbf{A}^2 - \sqrt{-\left(\mathbf{A} + \mathbf{N}_{\mathbf{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right) \cdot \left(\mathbf{A} - \mathbf{N}_{\mathbf{u}}\right) + \mathbf{N}_{\mathbf{u}}^2}\right]^2 \cdot \left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)}} = 1 \\ \mathbf{L} - & \frac{\sqrt{\left(2 \cdot \mathbf{A}^2 + 2 \cdot \mathbf{N}_{\mathbf{u}}^2\right)^2 \cdot \left[\mathbf{A}^2 - \sqrt{-\left(\mathbf{A} + \mathbf{N}_{\mathbf{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right) \cdot \left(\mathbf{A} - \mathbf{N}_{\mathbf{u}}\right) + \mathbf{N}_{\mathbf{u}}^2}\right]}}{2 \cdot \sqrt{\left[\mathbf{A}^2 - \sqrt{-\left(\mathbf{A} + \mathbf{N}_{\mathbf{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right) \cdot \left(\mathbf{A} - \mathbf{N}_{\mathbf{u}}\right) + \mathbf{N}_{\mathbf{u}}^2}\right]^2 \cdot \left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2\right)}} = 0 \end{aligned}$$



Unit. **AB** := 1 Given. **N** := 1.43434

N_u := 3 **A** := $\frac{N_{\mathbf{u}}}{N}$

Descriptions.

$$\frac{\mathbf{A}^2 + \mathbf{N_{u}}^2 - \sqrt{\left[\left(\mathbf{N_{u}} - \mathbf{A}\right) \cdot \left(\mathbf{A} + \mathbf{N_{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N_{u}}^2\right)\right]}}{2 \cdot \mathbf{A}^2} = 0.372457$$

$$\mathbf{Num} := \frac{\mathbf{A}^2 + \mathbf{N_{u}}^2 - \sqrt{\left[\left(\mathbf{N_{u}} - \mathbf{A}\right) \cdot \left(\mathbf{A} + \mathbf{N_{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N_{u}}^2\right)\right]}}{\sqrt{\left[\mathbf{A}^2 + \mathbf{N_{u}}^2 - \sqrt{\left[\left(\mathbf{N_{u}} - \mathbf{A}\right) \cdot \left(\mathbf{A} + \mathbf{N_{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N_{u}}^2\right)\right]}\right]^2}}$$

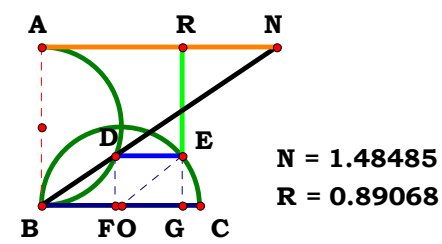
$$\mathbf{Den} := \frac{2 \cdot \mathbf{A}^2}{\sqrt{\left(2 \cdot \mathbf{A}^2\right)^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 **Den** = 1 **L** = 1

$$\frac{\sqrt{\mathbf{A}^4} \cdot \left[\mathbf{A}^2 - \sqrt{-\left(\mathbf{A} + \mathbf{N_{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N_{u}}^2\right) \cdot \left(\mathbf{A} - \mathbf{N_{u}}\right) + \mathbf{N_{u}}^2}\right]}{\mathbf{A}^2 \cdot \sqrt{\left[\mathbf{A}^2 - \sqrt{-\left(\mathbf{A} + \mathbf{N_{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N_{u}}^2\right) \cdot \left(\mathbf{A} - \mathbf{N_{u}}\right) + \mathbf{N_{u}}^2}\right]^2}} = 1$$
$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^4} \cdot \left[\mathbf{A}^2 - \sqrt{-\left(\mathbf{A} + \mathbf{N_{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N_{u}}^2\right) \cdot \left(\mathbf{A} - \mathbf{N_{u}}\right) + \mathbf{N_{u}}^2}\right]}{\mathbf{A}^2 \cdot \sqrt{\left[\mathbf{A}^2 - \sqrt{-\left(\mathbf{A} + \mathbf{N_{u}}\right) \cdot \left(3 \cdot \mathbf{A}^2 + \mathbf{N_{u}}^2\right) \cdot \left(\mathbf{A} - \mathbf{N_{u}}\right) + \mathbf{N_{u}}^2}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N := 1.48485$

$N_u := 3$ $A := \frac{N_u}{N}$

Descriptions.

$$\frac{A^2 + N_u^2 + \sqrt{2 \cdot A^2 \cdot N_u^2 - 3 \cdot A^4 + N_u^4}}{2 \cdot (A^2 + N_u^2)} = 0.890685$$

$$\text{Num} := \frac{A^2 + N_u^2 + \sqrt{2 \cdot A^2 \cdot N_u^2 - 3 \cdot A^4 + N_u^4}}{\sqrt{(A^2 + N_u^2 + \sqrt{2 \cdot A^2 \cdot N_u^2 - 3 \cdot A^4 + N_u^4})^2}}$$

$$\text{Den} := \frac{2 \cdot (A^2 + N_u^2)}{\sqrt{[2 \cdot (A^2 + N_u^2)]^2}}$$

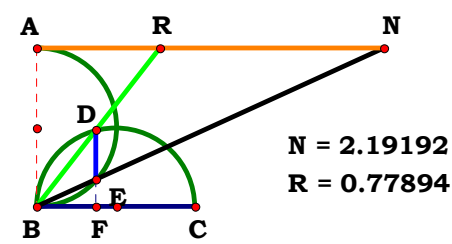
$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$\frac{\sqrt{(2 \cdot A^2 + 2 \cdot N_u^2)^2} \cdot (A^2 + N_u^2 + \sqrt{2 \cdot A^2 \cdot N_u^2 - 3 \cdot A^4 + N_u^4})}{2 \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 + N_u^2 + \sqrt{2 \cdot A^2 \cdot N_u^2 - 3 \cdot A^4 + N_u^4})^2}} = 1$$

$$L - \frac{\sqrt{(2 \cdot A^2 + 2 \cdot N_u^2)^2} \cdot (A^2 + N_u^2 + \sqrt{2 \cdot A^2 \cdot N_u^2 - 3 \cdot A^4 + N_u^4})}{2 \cdot (A^2 + N_u^2) \cdot \sqrt{(A^2 + N_u^2 + \sqrt{2 \cdot A^2 \cdot N_u^2 - 3 \cdot A^4 + N_u^4})^2}} = 0$$



N = 2.19192
R = 0.77894

Unit. AB := 1 Given. N := 2.19192

$N_u := 3 \quad A := \frac{N_u}{N}$

Descriptions.

$$\frac{\sqrt{A \cdot N_u}}{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}} = 0.778938$$

$$Num := \frac{\sqrt{A \cdot N_u}}{\sqrt{(\sqrt{A \cdot N_u})^2}}$$

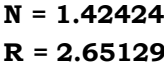
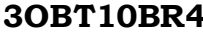
$$Den := \frac{\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}}{\sqrt{[\sqrt{N_u \cdot (A^2 - A \cdot N_u + N_u^2)}]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}} = 1$$

$$L - \frac{\sqrt{A \cdot N_u}}{\sqrt{A \cdot N_u^2}} = 0$$


$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$
$$\frac{A^2 + N_u^2 + \sqrt{2 \cdot A^2 \cdot N_u^2 - 3 \cdot A^4 + N_u^4}}{2 \cdot A^2} = 2.651284$$

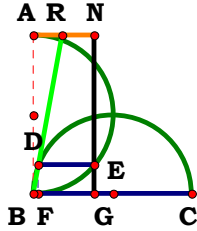
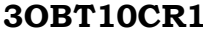
$$\text{Den} := \frac{2 \cdot A^2}{\sqrt{(2 \cdot A^2)^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\frac{\sqrt{\mathbf{A}^4 \cdot \left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2 + \sqrt{2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 3 \cdot \mathbf{A}^4 + \mathbf{N}_{\mathbf{u}}^4} \right)}}{\mathbf{A}^2 \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2 + \sqrt{2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 - 3 \cdot \mathbf{A}^4 + \mathbf{N}_{\mathbf{u}}^4} \right)^2}} = 1$$

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^4 \cdot \left(\mathbf{A}^2 + \mathbf{N}_u^2 + \sqrt{2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_u^2 - 3 \cdot \mathbf{A}^4 + \mathbf{N}_u^4} \right)}}{\mathbf{A}^2 \cdot \sqrt{\left(\mathbf{A}^2 + \mathbf{N}_u^2 + \sqrt{2 \cdot \mathbf{A}^2 \cdot \mathbf{N}_u^2 - 3 \cdot \mathbf{A}^4 + \mathbf{N}_u^4} \right)^2}} = 0$$



N = 0.38384
R = 0.18578

Unit. $AB := 1$ **Given.** $N := .38384$

$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

Descriptions.

$$\frac{A - \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2}} - A^2 + 4 \cdot N_u^2}{A - \sqrt{A^2 - 4 \cdot N_u^2}} = 0.185782$$

$$\text{Num} := \frac{\mathbf{A} - \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N}_{\mathbf{u}}^2}}{\sqrt{\left(\mathbf{A} - \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right)^2}}$$

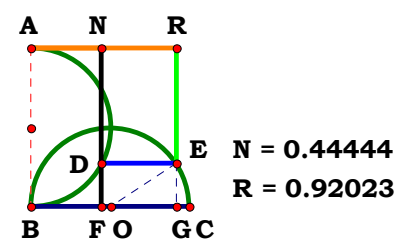
$$\mathbf{Den} := \frac{\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_u^2}}{\sqrt{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_u^2}\right)^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\frac{\left(\mathbf{A}-\sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2-4 \cdot \mathbf{N}_{\mathbf{u}}^2}-\mathbf{A}^2+4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right) \cdot \sqrt{\left(\mathbf{A}-\sqrt{\mathbf{A}^2-4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right)^2}}{\left(\mathbf{A}-\sqrt{\mathbf{A}^2-4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right) \cdot \sqrt{\left(\mathbf{A}-\sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2-4 \cdot \mathbf{N}_{\mathbf{u}}^2}-\mathbf{A}^2+4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right)^2}}=1$$

$$\mathbf{L} - \frac{\left(\mathbf{A} - \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right) \cdot \sqrt{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right)^2}}{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right) \cdot \sqrt{\left(\mathbf{A} - \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N}_{\mathbf{u}}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N}_{\mathbf{u}}^2}\right)^2}} = 0$$



Unit. $AB := 1$ Given. $N := .44444$

$N_u := 3$ $A := \frac{N_u}{N}$

Descriptions.

$$\frac{A + \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}}{2 \cdot A} = 0.920234$$

$$\text{Num} := \frac{A + \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}}{\sqrt{\left(A + \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}\right)^2}}$$

$$\text{Den} := \frac{2 \cdot A}{\sqrt{(2 \cdot A)^2}}$$

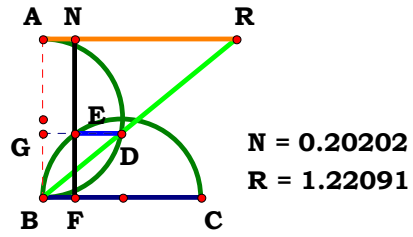
$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$\frac{\left(A + \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}\right) \cdot \sqrt{A^2}}{A \cdot \sqrt{\left(A + \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}\right)^2}} = 1$$

$$L - \frac{\left(A + \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}\right) \cdot \sqrt{A^2}}{A \cdot \sqrt{\left(A + \sqrt{2 \cdot A \cdot \sqrt{A^2 - 4 \cdot N_u^2} - A^2 + 4 \cdot N_u^2}\right)^2}} = 0$$

Unit. $AB := 1$ Given. $N := .20202$

$$\mathbf{N}_{\mathbf{u}} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_{\mathbf{u}}}{\mathbf{N}}$$

Descriptions.

$$\frac{\sqrt{\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{N_u} + \mathbf{A} \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} - \mathbf{N_u})}}}{\sqrt{\mathbf{N_u} \cdot (\mathbf{A} - \mathbf{N_u})}} = \mathbf{1.220908}$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{N_u} + \mathbf{A} \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} - \mathbf{N_u})}}}{\sqrt{\left[\sqrt{\mathbf{N_u}^2 - \mathbf{A} \cdot \mathbf{N_u} + \mathbf{A} \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} - \mathbf{N_u})}}\right]^2}}$$

$$\mathbf{Den} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}}{\sqrt{\left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}})}\right]^2}}$$

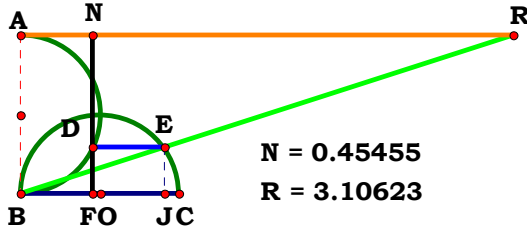
$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

1 = 1

$$\mathbf{L} - \mathbf{1} = \mathbf{0}$$



Unit. **AB** := 1 Given. **N** := .45455

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N}}$$

Descriptions.

$$\frac{\mathbf{A} + \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N_u}^2}}{\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}} = \mathbf{3.106103} \qquad \mathbf{Num} := \frac{\mathbf{A} + \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N_u}^2}}{\sqrt{\left(\mathbf{A} + \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N_u}^2}\right)^2}} \qquad \mathbf{Den} := \frac{\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}}{\sqrt{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}\right)^2}} \qquad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

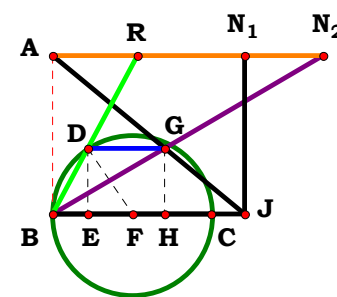
Definitions.

$$\mathbf{Num} = 1 \qquad \mathbf{Den} = 1 \qquad \mathbf{L} = 1$$

$$\frac{\left(\mathbf{A} + \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N_u}^2}\right) \cdot \sqrt{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}\right)^2}}{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}\right) \cdot \sqrt{\left(\mathbf{A} + \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N_u}^2}\right)^2}} = \mathbf{1}$$

$$\mathbf{L} - \frac{\left(\mathbf{A} + \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N_u}^2}\right) \cdot \sqrt{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}\right)^2}}{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2}\right) \cdot \sqrt{\left(\mathbf{A} + \sqrt{2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{N_u}^2} - \mathbf{A}^2 + 4 \cdot \mathbf{N_u}^2}\right)^2}} = \mathbf{0}$$

Descriptions.



N₁ = 1.21212
N₂ = 1.70707
R = 0.53333

Unit. AB := 1 **Given.** $N_1 := 1.21212$ $N_2 := 1.70707$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\frac{\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}}{2 \cdot \mathbf{B}} = \mathbf{0.533333}$$

$$\mathbf{Num} := \frac{\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}}{\sqrt{(\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{B}}{\sqrt{(2 \cdot \mathbf{B})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot (\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})}}{\mathbf{B} \cdot \sqrt{(\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})^2}} = \mathbf{0}$$



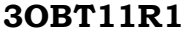
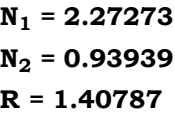
For 2 variables there are 4 subsets.

0, 0: 1

1, 0:
$$\frac{\mathbf{A} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} - 3 + 1}}{\sqrt{\left(\mathbf{A} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} - 3 + 1}\right)^2}}$$

0, 2:
$$\frac{\sqrt{\mathbf{B}^2} \cdot \left(\mathbf{B} - \sqrt{-3 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{B} + 1 + 1}\right)}{\mathbf{B} \cdot \sqrt{\left(\mathbf{B} - \sqrt{-3 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{B} + 1 + 1}\right)^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{B}^2} \cdot \left(\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}\right)}{\mathbf{B} \cdot \sqrt{\left(\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}\right)^2}}$$


$$\frac{N_u}{\sqrt{N_u \cdot (A + B - N_u)}} = 1.407864$$


$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\mathbf{Num} := \frac{\mathbf{N}_u}{\sqrt{(\mathbf{N}_u)^2}}$$

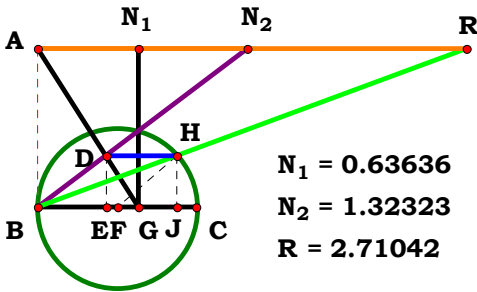
$$\mathbf{Den} := \frac{\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_{\mathbf{u}})}}{\sqrt{\left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_{\mathbf{u}})}\right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\frac{N_u}{\sqrt{N_u^2}} = 1$$

$$\mathbf{L} - \frac{\mathbf{N}_u}{\sqrt{\mathbf{N}_u^2}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := .63636$ $N_2 := 1.32323$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{A + B + \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}}{2 \cdot B} = 2.710428$$

$$Num := \frac{A + B + \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}}{\sqrt{\left(A + B + \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}\right)^2}}$$

$$Den := \frac{2 \cdot B}{\sqrt{(2 \cdot B)^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{\sqrt{B^2} \cdot \left(A + B + \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}\right)}{B \cdot \sqrt{\left(A + B + \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}\right)^2}} = 0$$



For 2 variables there are 4 subsets.

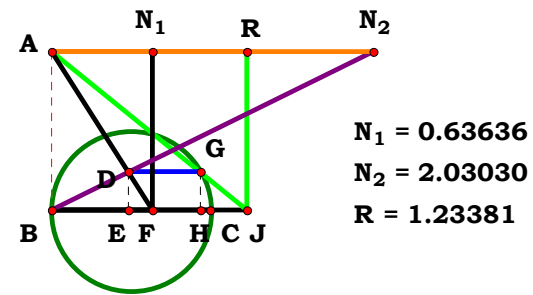
0, 0: 1

1, 0:
$$\frac{\mathbf{A} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} - 3 + 1}}{\sqrt{\left(\mathbf{A} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} - 3 + 1}\right)^2}}$$

0, 2:
$$\frac{\sqrt{\mathbf{B}^2} \cdot \left(\mathbf{B} + \sqrt{2 \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2 + 1 + 1}\right)}{\mathbf{B} \cdot \sqrt{\left(\mathbf{B} + \sqrt{2 \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2 + 1 + 1}\right)^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{B}^2} \cdot \left(\mathbf{A} + \mathbf{B} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}\right)}{\mathbf{B} \cdot \sqrt{\left(\mathbf{A} + \mathbf{B} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}\right)^2}}$$

30BT11R4



Unit. AB := 1 **Given.** N₁ := .63636 N₂ := 2.03030

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{\mathbf{A + B + \sqrt{A^2 + 2 \cdot A \cdot B - 3 \cdot B^2}}}{2 \cdot \mathbf{A}} = \mathbf{1.233809}$$

$$\mathbf{Num} := \frac{\mathbf{A} + \mathbf{B} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}}{\sqrt{\left(\mathbf{A} + \mathbf{B} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}\right)^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{A}}{\sqrt{(2 \cdot \mathbf{A})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2} \cdot (\mathbf{A} + \mathbf{B} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})}{\mathbf{A} \cdot \sqrt{(\mathbf{A} + \mathbf{B} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})^2}} = 0$$



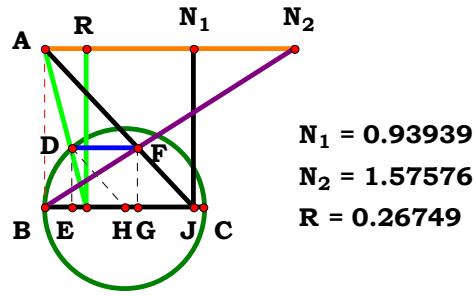
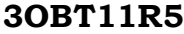
For 2 variables there are 4 subsets.

0, 0: 1

1, 0:
$$\frac{\sqrt{\mathbf{A}^2} \cdot (\mathbf{A} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} - 3 + 1})}{\mathbf{A} \cdot \sqrt{(\mathbf{A} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} - 3 + 1})^2}}$$

0, 2:
$$\frac{\mathbf{B} + \sqrt{2 \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2 + 1 + 1}}{\sqrt{(\mathbf{B} + \sqrt{2 \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2 + 1 + 1})^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{A}^2} \cdot (\mathbf{A} + \mathbf{B} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})}{\mathbf{A} \cdot \sqrt{(\mathbf{A} + \mathbf{B} + \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})^2}}$$



Unit. AB := 1 Given. $N_1 := .93939$ $N_2 := 1.57576$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}}{2 \cdot \mathbf{A}} = \mathbf{0.267482} \quad \mathbf{Num} := \frac{\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2}}{\sqrt{(\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})^2}} \quad \mathbf{Den} := \frac{2 \cdot \mathbf{A}}{\sqrt{(2 \cdot \mathbf{A})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2 \cdot (\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})}}{\mathbf{A} \cdot \sqrt{(\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})^2}} = \mathbf{0}$$



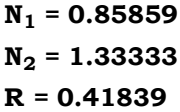
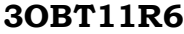
For 2 variables there are 4 subsets.

0, 0: 1

1, 0:
$$\frac{\sqrt{\mathbf{A}^2} \cdot (\mathbf{A} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} - 3 + 1})}{\mathbf{A} \cdot \sqrt{(\mathbf{A} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} - 3 + 1})^2}}$$

0, 2:
$$\frac{\mathbf{B} - \sqrt{-3 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{B} + 1 + 1}}{\sqrt{(\mathbf{B} - \sqrt{-3 \cdot \mathbf{B}^2 + 2 \cdot \mathbf{B} + 1 + 1})^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{A}^2} \cdot (\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})}{\mathbf{A} \cdot \sqrt{(\mathbf{A} + \mathbf{B} - \sqrt{\mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - 3 \cdot \mathbf{B}^2})^2}}$$



$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\frac{A - \sqrt{(2 \cdot B - A) \cdot (3 \cdot A - 2 \cdot B)}}{2 \cdot (A - B)} = 0.418381$$

$$\mathbf{Den} := \frac{2 \cdot (\mathbf{A} - \mathbf{B})}{\sqrt{[2 \cdot (\mathbf{A} - \mathbf{B})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{[\mathbf{A} - \sqrt{-(3 \cdot \mathbf{A} - 2 \cdot \mathbf{B}) \cdot (\mathbf{A} - 2 \cdot \mathbf{B})}] \cdot \sqrt{(2 \cdot \mathbf{A} - 2 \cdot \mathbf{B})^2}}{2 \cdot \sqrt{[\mathbf{A} - \sqrt{-(3 \cdot \mathbf{A} - 2 \cdot \mathbf{B}) \cdot (\mathbf{A} - 2 \cdot \mathbf{B})}]^2 \cdot (\mathbf{A} - \mathbf{B})}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

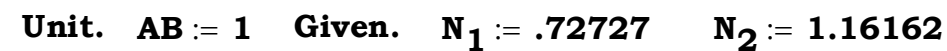
0, 0: 0

1, 0:
$$\frac{\sqrt{(2 \cdot A - 2)^2} \cdot [A - \sqrt{-(A - 2) \cdot (3 \cdot A - 2)}]}{2 \cdot (A - 1) \cdot \sqrt{[A - \sqrt{-(A - 2) \cdot (3 \cdot A - 2)}]^2}}$$

0, 2:
$$\frac{\sqrt{(2 \cdot B - 2)^2} \cdot [\sqrt{-(2 \cdot B - 1) \cdot (2 \cdot B - 3)} - 1]}{2 \cdot (B - 1) \cdot \sqrt{[\sqrt{-(2 \cdot B - 1) \cdot (2 \cdot B - 3)} - 1]^2}}$$

1, 2:
$$\frac{[A - \sqrt{-(3 \cdot A - 2 \cdot B) \cdot (A - 2 \cdot B)}] \cdot \sqrt{(2 \cdot A - 2 \cdot B)^2}}{2 \cdot \sqrt{[A - \sqrt{-(3 \cdot A - 2 \cdot B) \cdot (A - 2 \cdot B)}]^2} \cdot (A - B)}$$

Descriptions.



$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\frac{\mathbf{A} + \sqrt{(\mathbf{2} \cdot \mathbf{B} - \mathbf{A}) \cdot (\mathbf{3} \cdot \mathbf{A} - \mathbf{2} \cdot \mathbf{B})}}{\mathbf{2} \cdot (\mathbf{A} - \mathbf{B})} = \mathbf{2.224936}$$

$$\mathbf{Num} := \frac{\mathbf{A} + \sqrt{(2 \cdot \mathbf{B} - \mathbf{A}) \cdot (3 \cdot \mathbf{A} - 2 \cdot \mathbf{B})}}{\sqrt{\left[\mathbf{A} + \sqrt{(2 \cdot \mathbf{B} - \mathbf{A}) \cdot (3 \cdot \mathbf{A} - 2 \cdot \mathbf{B})} \right]^2}}$$

$$\text{Den} := \frac{2 \cdot (\mathbf{A} - \mathbf{B})}{\sqrt{[2 \cdot (\mathbf{A} - \mathbf{B})]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{[\mathbf{A} + \sqrt{-(\mathbf{3} \cdot \mathbf{A} - 2 \cdot \mathbf{B}) \cdot (\mathbf{A} - 2 \cdot \mathbf{B})}] \cdot \sqrt{(2 \cdot \mathbf{A} - 2 \cdot \mathbf{B})^2}}{2 \cdot (\mathbf{A} - \mathbf{B}) \cdot \sqrt{[\mathbf{A} + \sqrt{-(\mathbf{3} \cdot \mathbf{A} - 2 \cdot \mathbf{B}) \cdot (\mathbf{A} - 2 \cdot \mathbf{B})}]^2}} = \mathbf{0}$$



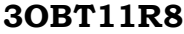
For 2 variables there are 4 subsets.

0, 0: 0

1, 0:
$$\frac{\sqrt{(2 \cdot \mathbf{A} - 2)^2} \cdot [\mathbf{A} + \sqrt{-(\mathbf{A} - 2) \cdot (3 \cdot \mathbf{A} - 2)}]}{\sqrt{[\mathbf{A} + \sqrt{-(\mathbf{A} - 2) \cdot (3 \cdot \mathbf{A} - 2)}]^2} \cdot (2 \cdot \mathbf{A} - 2)}$$

0, 2:
$$-\frac{\sqrt{(2 \cdot \mathbf{B} - 2)^2} \cdot [\sqrt{-(2 \cdot \mathbf{B} - 1) \cdot (2 \cdot \mathbf{B} - 3)} + 1]}{\sqrt{[\sqrt{-(2 \cdot \mathbf{B} - 1) \cdot (2 \cdot \mathbf{B} - 3)} + 1]^2} \cdot (2 \cdot \mathbf{B} - 2)}$$

1, 2:
$$\frac{[\mathbf{A} + \sqrt{-(3 \cdot \mathbf{A} - 2 \cdot \mathbf{B}) \cdot (\mathbf{A} - 2 \cdot \mathbf{B})}] \cdot \sqrt{(2 \cdot \mathbf{A} - 2 \cdot \mathbf{B})^2}}{2 \cdot (\mathbf{A} - \mathbf{B}) \cdot \sqrt{[\mathbf{A} + \sqrt{-(3 \cdot \mathbf{A} - 2 \cdot \mathbf{B}) \cdot (\mathbf{A} - 2 \cdot \mathbf{B})}]^2}}$$



$$\frac{\mathbf{A} - \sqrt{(\mathbf{A} - 2 \cdot \mathbf{B}) \cdot (\mathbf{A} + 2 \cdot \mathbf{B})}}{2 \cdot \mathbf{B}} = 0.505449$$

Unit. $AB := 1$ **Given.** $N_1 := .62626$ $N_2 := 1.55556$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\mathbf{Den} := \frac{\mathbf{2} \cdot \mathbf{B}}{\sqrt{(\mathbf{2} \cdot \mathbf{B})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot [\mathbf{A} - \sqrt{(\mathbf{A} - 2 \cdot \mathbf{B}) \cdot (\mathbf{A} + 2 \cdot \mathbf{B})}]}}{\mathbf{B} \cdot \sqrt{[\mathbf{A} - \sqrt{(\mathbf{A} - 2 \cdot \mathbf{B}) \cdot (\mathbf{A} + 2 \cdot \mathbf{B})}]^2}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

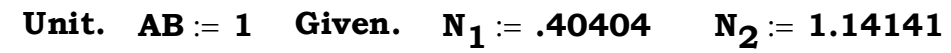
0, 0:
$$-\frac{-1+\sqrt{3}\cdot i}{\sqrt{\left(-1+\sqrt{3}\cdot i\right)^2}}$$

1, 0:
$$\frac{\mathbf{A}-\sqrt{\left(\mathbf{A}-2\right)\cdot\left(\mathbf{A}+2\right)}}{\sqrt{\left[\mathbf{A}-\sqrt{\left(\mathbf{A}-2\right)\cdot\left(\mathbf{A}+2\right)}\right]^2}}$$

0, 2:
$$\frac{\left[\sqrt{-\left(2\cdot\mathbf{B}-1\right)\cdot\left(2\cdot\mathbf{B}+1\right)}-1\right]\cdot\sqrt{\mathbf{B}^2}}{\mathbf{B}\cdot\sqrt{\left[\sqrt{-\left(2\cdot\mathbf{B}-1\right)\cdot\left(2\cdot\mathbf{B}+1\right)}-1\right]^2}}$$

1, 2:
$$\frac{\sqrt{\mathbf{B}^2}\cdot\left[\mathbf{A}-\sqrt{\left(\mathbf{A}-2\cdot\mathbf{B}\right)\cdot\left(\mathbf{A}+2\cdot\mathbf{B}\right)}\right]}{\mathbf{B}\cdot\sqrt{\left[\mathbf{A}-\sqrt{\left(\mathbf{A}-2\cdot\mathbf{B}\right)\cdot\left(\mathbf{A}+2\cdot\mathbf{B}\right)}\right]^2}}$$

Descriptions.



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

$$\frac{\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{B}^2}}{2 \cdot \mathbf{B}} = \mathbf{2.410066}$$

$$\mathbf{Num} := \frac{\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{B}^2}}{\sqrt{(\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{B}^2})^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{B}}{\sqrt{(2 \cdot \mathbf{B})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{(\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{B}^2}) \cdot \sqrt{\mathbf{B}^2}}{\mathbf{B} \cdot \sqrt{(\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{B}^2})^2}} = \mathbf{0}$$



For 2 variables there are 4 subsets.

0, 0:

$$\frac{1 + \sqrt{3} \cdot i}{\sqrt{(1 + \sqrt{3} \cdot i)^2}}$$

1, 0:

$$\frac{\mathbf{A} + \sqrt{\mathbf{A}^2 - 4}}{\sqrt{(\mathbf{A} + \sqrt{\mathbf{A}^2 - 4})^2}}$$

0, 2:

$$\frac{(\sqrt{1 - 4 \cdot \mathbf{B}^2} + 1) \cdot \sqrt{\mathbf{B}^2}}{\mathbf{B} \cdot \sqrt{(\sqrt{1 - 4 \cdot \mathbf{B}^2} + 1)^2}}$$

1, 2:

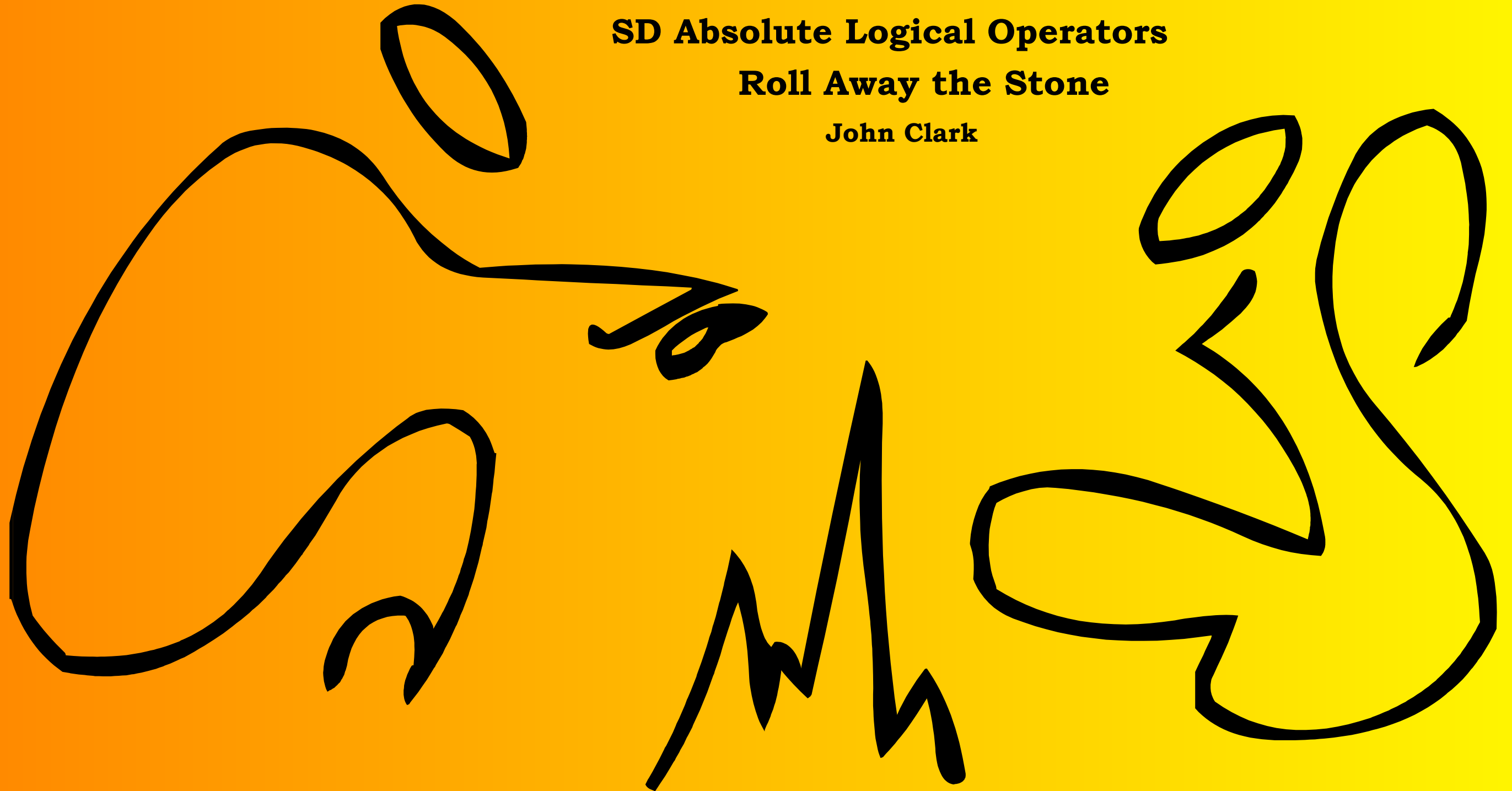
$$\frac{(\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{B}^2}) \cdot \sqrt{\mathbf{B}^2}}{\mathbf{B} \cdot \sqrt{(\mathbf{A} + \sqrt{\mathbf{A}^2 - 4 \cdot \mathbf{B}^2})^2}}$$

Basic Analog Grammar

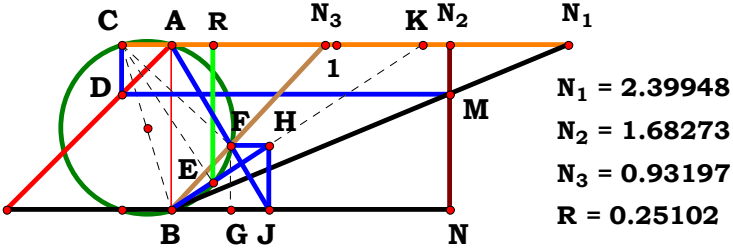
SD Absolute Logical Operators

Roll Away the Stone

John Clark



John 312



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.68273$ $N_3 := .93197$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{B \cdot N_u \cdot \left(C^2 + N_u^2\right) \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)}{B^2 \cdot N_u^4 + 3 \cdot B^2 \cdot C^2 \cdot N_u^2 - 2 \cdot N_u \cdot B \cdot C^3 \cdot (A - B) + C^4 \cdot \left(A^2 - 2 \cdot A \cdot B + 2 \cdot B^2\right)} = 0.251022$$

$$Den := \frac{B^2 \cdot N_u^4 + 3 \cdot B^2 \cdot C^2 \cdot N_u^2 - 2 \cdot N_u \cdot B \cdot C^3 \cdot (A - B) + C^4 \cdot \left(A^2 - 2 \cdot A \cdot B + 2 \cdot B^2\right)}{\sqrt{\left[B^2 \cdot N_u^4 + 3 \cdot B^2 \cdot C^2 \cdot N_u^2 - 2 \cdot N_u \cdot B \cdot C^3 \cdot (A - B) + C^4 \cdot \left(A^2 - 2 \cdot A \cdot B + 2 \cdot B^2\right)\right]^2}}$$

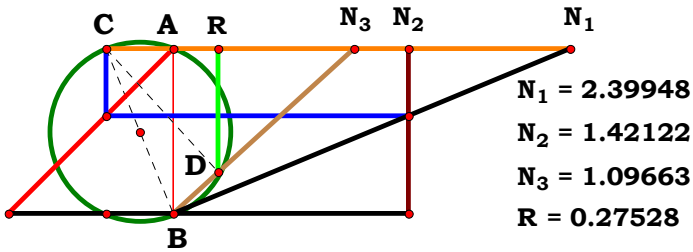
$$Num := \frac{B \cdot N_u \cdot \left(C^2 + N_u^2\right) \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)}{\sqrt{\left[B \cdot N_u \cdot \left(C^2 + N_u^2\right) \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)\right]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{B \cdot N_u \cdot \left(C^2 + N_u^2\right) \cdot \sqrt{\left[B^2 \cdot N_u^4 + C^4 \cdot \left(A^2 - 2 \cdot A \cdot B + 2 \cdot B^2\right) + 3 \cdot B^2 \cdot C^2 \cdot N_u^2 - 2 \cdot B \cdot C^3 \cdot N_u \cdot (A - B)\right]^2} \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)}{\left[B^2 \cdot N_u^4 + C^4 \cdot \left(A^2 - 2 \cdot A \cdot B + 2 \cdot B^2\right) + 3 \cdot B^2 \cdot C^2 \cdot N_u^2 - 2 \cdot B \cdot C^3 \cdot N_u \cdot (A - B)\right] \cdot \sqrt{B^2 \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)^2}} = 0$$



Unit. AB := 1 Given. N₁ := 2.39948 N₂ := 1.42122 N₃ := 1.09663

$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)}{B \cdot (C^2 + N_u^2)} = 0.275282$$

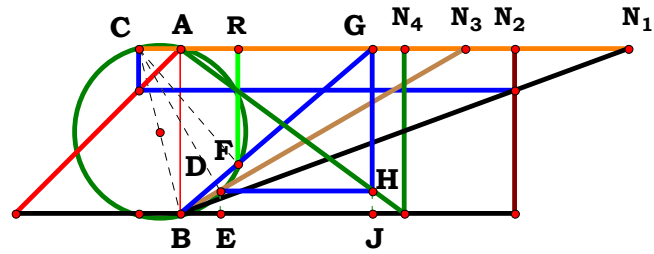
$$Num := \frac{N_u \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)}{\sqrt{[N_u \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)]^2}}$$

$$Den := \frac{B \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot (C^2 + N_u^2)]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot (C^2 + N_u^2)^2} \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)}{B \cdot (C^2 + N_u^2) \cdot \sqrt{N_u^2 \cdot (B \cdot C + A \cdot N_u - B \cdot N_u)^2}} = 0$$



$N_1 = 2.70943$
 $N_2 = 2.02174$
 $N_3 = 1.72621$
 $N_4 = 1.35578$
 $R = 0.34819$

Unit. $AB := 1$ Given. $N_1 := 2.70943$ $N_2 := 2.02174$ $N_3 := 1.72621$
 $N_4 := 1.35578$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^2 \cdot (A \cdot C - B \cdot C - B \cdot N_u) \cdot \left[(B^2 - A \cdot B) \cdot N_u^3 + N_u^2 \cdot [C \cdot (A^2 + B^2) - B^2 \cdot D - 2 \cdot A \cdot B \cdot C] - B^2 \cdot C^2 \cdot D \right]}{B \cdot \left[B^2 \cdot N_u^6 + -2 \cdot N_u^5 \cdot B \cdot C \cdot (A - B) + N_u^4 \cdot (A^2 \cdot C^2 - 2 \cdot A \cdot B \cdot C^2 + B^2 \cdot C^2 + B^2 \cdot D^2) + B^2 \cdot C^2 \cdot D^2 \cdot (C^2 + 2 \cdot N_u^2) \right]} = 0.348194$$

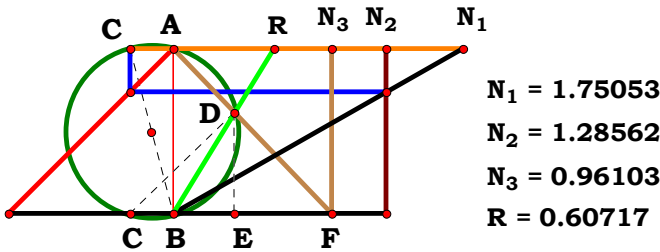
$$\text{Num} := \frac{N_u^2 \cdot (A \cdot C - B \cdot C - B \cdot N_u) \cdot \left[(B^2 - A \cdot B) \cdot N_u^3 + N_u^2 \cdot [C \cdot (A^2 + B^2) - B^2 \cdot D - 2 \cdot A \cdot B \cdot C] - B^2 \cdot C^2 \cdot D \right]}{\sqrt{\left[N_u^2 \cdot (A \cdot C - B \cdot C - B \cdot N_u) \cdot \left[(B^2 - A \cdot B) \cdot N_u^3 + N_u^2 \cdot [C \cdot (A^2 + B^2) - B^2 \cdot D - 2 \cdot A \cdot B \cdot C] - B^2 \cdot C^2 \cdot D \right] \right]^2}}$$

$$\text{Den} := \frac{B \cdot \left[B^2 \cdot N_u^6 + -2 \cdot N_u^5 \cdot B \cdot C \cdot (A - B) + N_u^4 \cdot (A^2 \cdot C^2 - 2 \cdot A \cdot B \cdot C^2 + B^2 \cdot C^2 + B^2 \cdot D^2) + B^2 \cdot C^2 \cdot D^2 \cdot (C^2 + 2 \cdot N_u^2) \right]}{\sqrt{\left[B \cdot \left[B^2 \cdot N_u^6 + -2 \cdot N_u^5 \cdot B \cdot C \cdot (A - B) + N_u^4 \cdot (A^2 \cdot C^2 - 2 \cdot A \cdot B \cdot C^2 + B^2 \cdot C^2 + B^2 \cdot D^2) + B^2 \cdot C^2 \cdot D^2 \cdot (C^2 + 2 \cdot N_u^2) \right] \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^2 \cdot \sqrt{B^2 \cdot \left[B^2 \cdot N_u^6 + N_u^4 \cdot (A^2 \cdot C^2 - 2 \cdot A \cdot B \cdot C^2 + B^2 \cdot C^2 + B^2 \cdot D^2) \dots \right]^2 \cdot \left[N_u^2 \cdot [B^2 \cdot D - C \cdot (A^2 + B^2) + 2 \cdot A \cdot B \cdot C] - N_u^3 \cdot (B^2 - A \cdot B) + B^2 \cdot C^2 \cdot D \right] \cdot (B \cdot C - A \cdot C + B \cdot N_u)}}{B \cdot \sqrt{N_u^4 \cdot \left[N_u^2 \cdot [B^2 \cdot D - C \cdot (A^2 + B^2) + 2 \cdot A \cdot B \cdot C] - N_u^3 \cdot (B^2 - A \cdot B) + B^2 \cdot C^2 \cdot D \right]^2 \cdot (B \cdot C - A \cdot C + B \cdot N_u)^2 \cdot \left[B^2 \cdot N_u^6 + N_u^4 \cdot (A^2 \cdot C^2 - 2 \cdot A \cdot B \cdot C^2 + B^2 \cdot C^2 + B^2 \cdot D^2) \dots \right]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 1.28562$ $N_3 := .96103$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{B \cdot C + N_u \cdot (A - B)}{C \cdot (B - A) + B \cdot N_u} = 0.607174$$

$$Num := \frac{B \cdot C + N_u \cdot (A - B)}{\sqrt{[B \cdot C + N_u \cdot (A - B)]^2}}$$

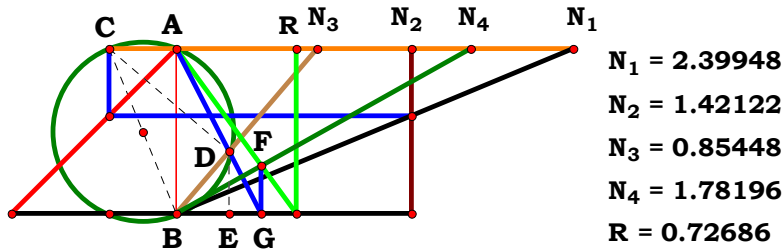
$$Den := \frac{C \cdot (B - A) + B \cdot N_u}{\sqrt{[C \cdot (B - A) + B \cdot N_u]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{[B \cdot C + N_u \cdot (A - B)] \cdot \sqrt{[B \cdot N_u - C \cdot (A - B)]^2}}{[B \cdot N_u - C \cdot (A - B)] \cdot \sqrt{[B \cdot C + N_u \cdot (A - B)]^2}} = 0$$



Descriptions.

$$\frac{N_u \cdot [B \cdot C + N_u \cdot (A - B)]}{B \cdot N_u^2 - N_u \cdot (C + D) \cdot (A - B) - B \cdot C \cdot D} = 0.726866$$

$$Num := \frac{N_u \cdot [B \cdot C + N_u \cdot (A - B)]}{\sqrt{[N_u \cdot [B \cdot C + N_u \cdot (A - B)]]^2}}$$

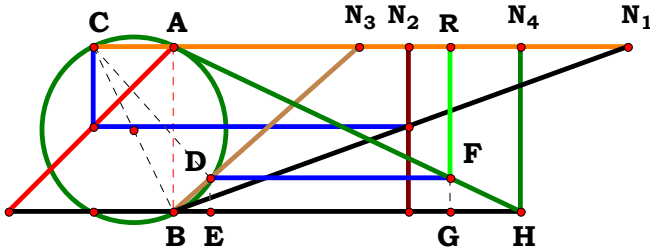
$$Den := \frac{B \cdot N_u^2 - N_u \cdot (C + D) \cdot (A - B) - B \cdot C \cdot D}{\sqrt{[B \cdot N_u^2 - N_u \cdot (C + D) \cdot (A - B) - B \cdot C \cdot D]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u \cdot [B \cdot C + N_u \cdot (A - B)] \cdot \sqrt{[(C + D) \cdot (A - B) \cdot N_u - B \cdot N_u^2 + B \cdot C \cdot D]^2}}{\sqrt{N_u^2 \cdot [B \cdot C + N_u \cdot (A - B)]^2 \cdot [B \cdot N_u^2 - (C + D) \cdot (A - B) \cdot N_u - B \cdot C \cdot D]}} = 0$$


$$\frac{\mathbf{N_u}^2 \cdot [\mathbf{C} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{B} \cdot \mathbf{N_u}]}{\mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2)} = 1.678466$$


$$\begin{aligned} N_1 &= 2.74817 \\ N_2 &= 1.42122 \\ N_3 &= 1.12569 \\ N_4 &= 2.10159 \\ R &= 1.67846 \end{aligned}$$

Unit. $AB := 1$ **Given.** $N_1 := 2.74817$ $N_2 := 1.42122$ $N_3 := 1.12569$
 $N_4 := 2.10159$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\mathbf{Num} := \frac{\mathbf{N_u}^2 \cdot [\mathbf{C} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{B} \cdot \mathbf{N_u}]}{\sqrt{[\mathbf{N_u}^2 \cdot [\mathbf{C} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{B} \cdot \mathbf{N_u}]]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{\sqrt{[\mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N_u}^2 \cdot [\mathbf{B} \cdot \mathbf{N_u} - \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})] \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{C}^2 + \mathbf{N_u}^2)^2}}{\mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot \sqrt{\mathbf{N_u}^4 \cdot [\mathbf{B} \cdot \mathbf{N_u} - \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})]^2}} = 0$$



4RST1AB1R6

Descriptions.

$$\frac{B \cdot (C^2 + N_u^2)}{C \cdot [C \cdot (B - A) + B \cdot N_u]} = 1.396498$$

$$Num := \frac{B \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot (C^2 + N_u^2)]^2}}$$

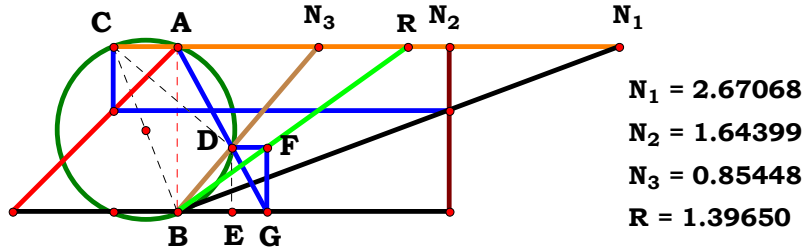
$$Den := \frac{C \cdot [C \cdot (B - A) + B \cdot N_u]}{\sqrt{[C \cdot [C \cdot (B - A) + B \cdot N_u]]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

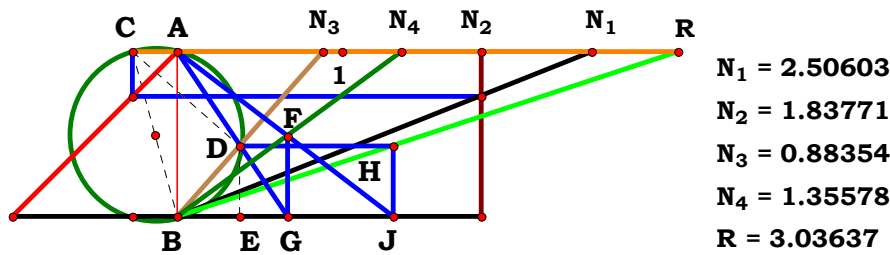
Num = 1 Den = 1 L = 1

$$L - \frac{B \cdot (C^2 + N_u^2) \cdot \sqrt{C^2 \cdot [B \cdot N_u - C \cdot (A - B)]^2}}{C \cdot [B \cdot N_u - C \cdot (A - B)] \cdot \sqrt{B^2 \cdot (C^2 + N_u^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.67068$ $N_2 := 1.64399$ $N_3 := .85448$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$



Unit. $AB := 1$ Given. $N_1 := 2.50603$ $N_2 := 1.83771$ $N_3 := .88354$
 $N_4 := 1.35578$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{B \cdot N_u \cdot (C^2 + N_u^2)}{C \cdot [B \cdot N_u^2 + N_u \cdot (C + D) \cdot (B - A) - B \cdot C \cdot D]} = 3.03638$$

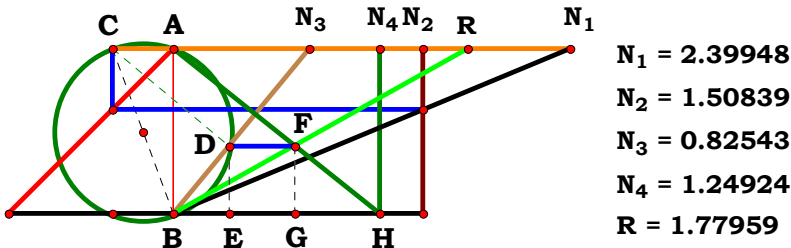
$$Num := \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot N_u \cdot (C^2 + N_u^2)]^2}}$$

$$Den := \frac{C \cdot [B \cdot N_u^2 + N_u \cdot (C + D) \cdot (B - A) - B \cdot C \cdot D]}{\sqrt{[C \cdot [B \cdot N_u^2 + N_u \cdot (C + D) \cdot (B - A) - B \cdot C \cdot D]]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{B \cdot N_u \cdot \sqrt{C^2 \cdot [(C + D) \cdot (A - B) \cdot N_u - B \cdot N_u^2 + B \cdot C \cdot D]^2 \cdot (C^2 + N_u^2)}}{C \cdot [B \cdot N_u^2 - B \cdot C \cdot D - (C + D) \cdot (A - B) \cdot N_u] \cdot \sqrt{B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.50839$ $N_3 := .82543$
 $N_4 := 1.24924$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^2 \cdot [C \cdot (B - A) + B \cdot N_u]}{D \cdot [B \cdot C^2 + C \cdot N_u \cdot (A - B)]} = 1.779608$$

$$Num := \frac{N_u^2 \cdot [C \cdot (B - A) + B \cdot N_u]}{\sqrt{[N_u^2 \cdot [C \cdot (B - A) + B \cdot N_u]]^2}}$$

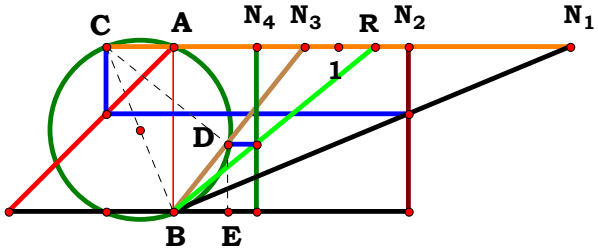
$$Den := \frac{D \cdot [B \cdot C^2 + C \cdot N_u \cdot (A - B)]}{\sqrt{[D \cdot [B \cdot C^2 + C \cdot N_u \cdot (A - B)]]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u^2 \cdot [B \cdot N_u - C \cdot (A - B)] \cdot \sqrt{D^2 \cdot [B \cdot C^2 + N_u \cdot (A - B) \cdot C]^2}}{D \cdot \sqrt{N_u^4 \cdot [B \cdot N_u - C \cdot (A - B)]^2 \cdot [B \cdot C^2 + N_u \cdot (A - B) \cdot C]}} = 0$$



$N_1 = 2.39948$
 $N_2 = 1.42122$
 $N_3 = 0.79637$
 $N_4 = 0.50343$
 $R = 1.21825$

Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := .79637$
 $N_4 := .50343$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

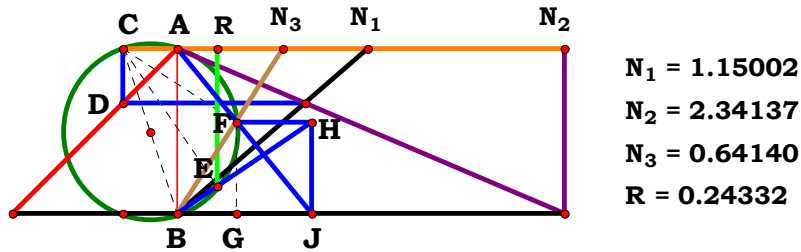
Descriptions.

$$\frac{B \cdot N_u \cdot (C^2 + N_u^2)}{D \cdot [B \cdot C^2 + C \cdot N_u \cdot (A - B)]} = 1.218244 \quad \text{Num} := \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot N_u \cdot (C^2 + N_u^2)]^2}} \quad \text{Den} := \frac{D \cdot [B \cdot C^2 + C \cdot N_u \cdot (A - B)]}{\sqrt{[D \cdot [B \cdot C^2 + C \cdot N_u \cdot (A - B)]]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{B \cdot N_u \cdot \sqrt{D^2 \cdot [B \cdot C^2 + N_u \cdot (A - B) \cdot C]^2 \cdot (C^2 + N_u^2)}}{D \cdot [B \cdot C^2 + N_u \cdot (A - B) \cdot C] \cdot \sqrt{B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.15002$ $N_2 := 2.34137$ $N_3 := .64140$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)}{N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right) \cdot (A + B)^2 + 2 \cdot N_u \cdot B \cdot C^3 \cdot (A + B) + C^4 \cdot \left(A^2 + 2 \cdot A \cdot B + 2 \cdot B^2\right)} = 0.24332$$

$$\text{Den} := \frac{N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right) \cdot (A + B)^2 + 2 \cdot N_u \cdot B \cdot C^3 \cdot (A + B) + C^4 \cdot \left(A^2 + 2 \cdot A \cdot B + 2 \cdot B^2\right)}{\sqrt{\left[N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right) \cdot (A + B)^2 + 2 \cdot N_u \cdot B \cdot C^3 \cdot (A + B) + C^4 \cdot \left(A^2 + 2 \cdot A \cdot B + 2 \cdot B^2\right)\right]^2}}$$

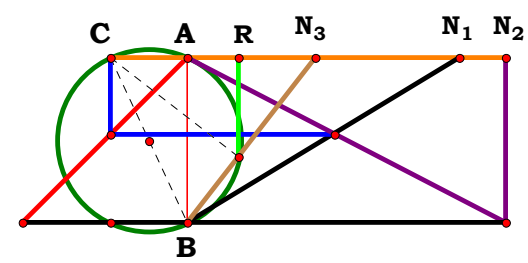
$$\text{Num} := \frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)}{\sqrt{\left[N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \sqrt{\left[C^4 \cdot \left(A^2 + 2 \cdot A \cdot B + 2 \cdot B^2\right) + N_u^2 \cdot (A + B)^2 \cdot \left(3 \cdot C^2 + N_u^2\right) + 2 \cdot B \cdot C^3 \cdot N_u \cdot (A + B)\right]^2 \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)}}{\left[C^4 \cdot \left(A^2 + 2 \cdot A \cdot B + 2 \cdot B^2\right) + N_u^2 \cdot (A + B)^2 \cdot \left(3 \cdot C^2 + N_u^2\right) + 2 \cdot B \cdot C^3 \cdot N_u \cdot (A + B)\right] \cdot \sqrt{N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2 \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)^2}} = 0$$



$N_1 = 1.64399$
 $N_2 = 1.92488$
 $N_3 = 0.77700$
 $R = 0.31108$

Unit. $AB := 1$ Given. $N_1 := 1.64399$ $N_2 := 1.92488$ $N_3 := .77700$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot [C \cdot (A + B) - B \cdot N_u]}{(C^2 + N_u^2) \cdot (A + B)} = 0.311084$$

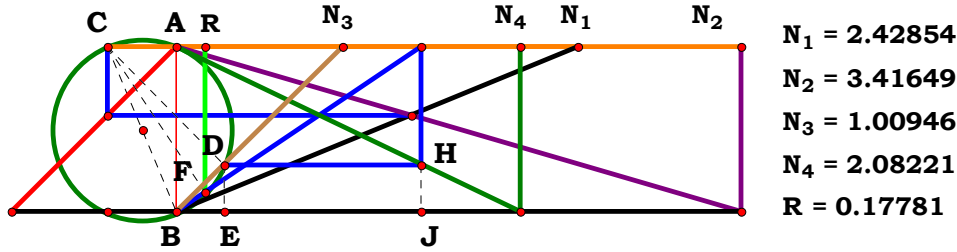
$$Num := \frac{N_u \cdot [C \cdot (A + B) - B \cdot N_u]}{\sqrt{[N_u \cdot [C \cdot (A + B) - B \cdot N_u]]^2}}$$

$$Den := \frac{(C^2 + N_u^2) \cdot (A + B)}{\sqrt{[(C^2 + N_u^2) \cdot (A + B)]^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u) \cdot \sqrt{(C^2 + N_u^2)^2 \cdot (A + B)^2}}{\sqrt{N_u^2 \cdot [C \cdot (A + B) - B \cdot N_u]^2 \cdot (C^2 + N_u^2) \cdot (A + B)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.42854$ $N_2 := 3.41649$ $N_3 := 1.00946$
 $N_4 := 2.08221$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3} \qquad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{N_u^2 \cdot \left[B \cdot C + N_u \cdot (A + B) \right] \cdot \left[D \cdot \left(C^2 + N_u^2 \right) \cdot (A + B)^2 - \left[B \cdot N_u^2 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right) \right] \right]}{(A + B) \cdot \left[D^2 \cdot \left(C^2 + N_u^2 \right)^2 \cdot (A + B)^2 + N_u^4 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right)^2 \right]} = 0.177813$$

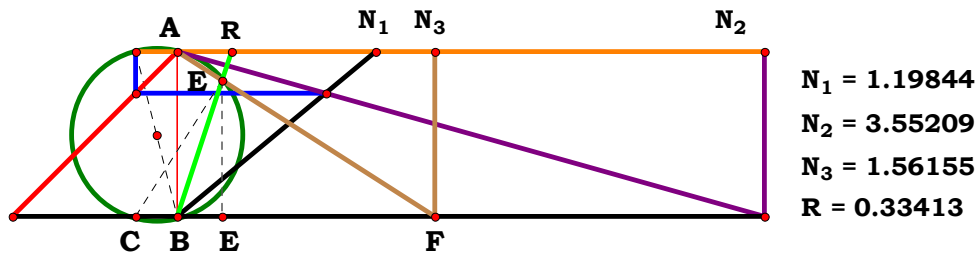
$$Num := \frac{N_u^2 \cdot \left[B \cdot C + N_u \cdot (A + B) \right] \cdot \left[D \cdot \left(C^2 + N_u^2 \right) \cdot (A + B)^2 - \left[B \cdot N_u^2 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right) \right] \right]}{\sqrt{\left[N_u^2 \cdot \left[B \cdot C + N_u \cdot (A + B) \right] \cdot \left[D \cdot \left(C^2 + N_u^2 \right) \cdot (A + B)^2 - \left[B \cdot N_u^2 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right) \right] \right] \right]^2}}$$

$$Den := \frac{(A + B) \cdot \left[D^2 \cdot \left(C^2 + N_u^2 \right)^2 \cdot (A + B)^2 + N_u^4 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right)^2 \right]}{\sqrt{\left[(A + B) \cdot \left[D^2 \cdot \left(C^2 + N_u^2 \right)^2 \cdot (A + B)^2 + N_u^4 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right)^2 \right] \right]^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{N_u^2 \cdot \sqrt{\left[N_u^4 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right)^2 + D^2 \cdot \left(C^2 + N_u^2 \right)^2 \cdot (A + B)^2 \right]^2 \cdot (A + B)^2 \cdot \left[N_u \cdot (A + B) + B \cdot C \right] \cdot \left[D \cdot \left(C^2 + N_u^2 \right) \cdot (A + B)^2 - B \cdot N_u^2 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right) \right]}}{\left[N_u^4 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right)^2 + D^2 \cdot \left(C^2 + N_u^2 \right)^2 \cdot (A + B)^2 \right] \cdot (A + B) \cdot \sqrt{N_u^4 \cdot \left[N_u \cdot (A + B) + B \cdot C \right]^2 \cdot \left[B \cdot N_u^2 \cdot \left(B \cdot C + A \cdot N_u + B \cdot N_u \right) - D \cdot \left(C^2 + N_u^2 \right) \cdot (A + B)^2 \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.19844$ $N_2 := 3.55209$ $N_3 := 1.56155$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{C \cdot (A + B) - B \cdot N_u}{B \cdot C + N_u \cdot (A + B)} = 0.334134$$

$$Num := \frac{C \cdot (A + B) - B \cdot N_u}{\sqrt{[C \cdot (A + B) - B \cdot N_u]^2}}$$

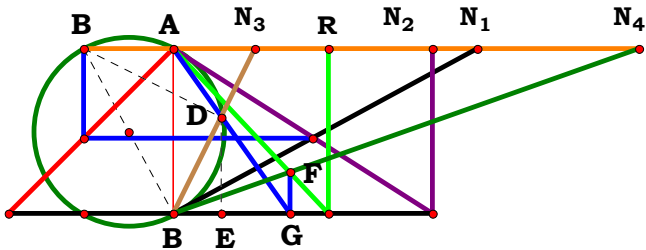
$$Den := \frac{B \cdot C + N_u \cdot (A + B)}{\sqrt{[B \cdot C + N_u \cdot (A + B)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{\sqrt{[N_u \cdot (A + B) + B \cdot C]^2} \cdot [C \cdot (A + B) - B \cdot N_u]}{\sqrt{[C \cdot (A + B) - B \cdot N_u]^2} \cdot [N_u \cdot (A + B) + B \cdot C]} = 0$$



$N_1 = 1.83771$
 $N_2 = 1.56650$
 $N_3 = 0.49611$
 $N_4 = 2.81833$
 $R = 0.94335$

Unit. $AB := 1$ Given. $N_1 := 1.83771$ $N_2 := 1.56650$ $N_3 := .49611$
 $N_4 := 2.81833$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$$\frac{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u)}{(A + B) \cdot N_u^2 + N_u \cdot B \cdot (C + D) - [C \cdot D \cdot (A + B)]} = 0.94335$$

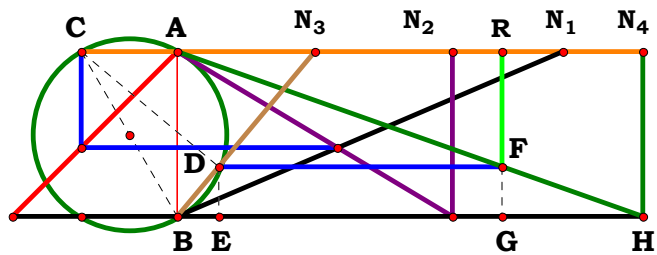
$$Num := \frac{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u)}{\sqrt{[N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u)]^2}}$$

$$Den := \frac{(A + B) \cdot N_u^2 + N_u \cdot B \cdot (C + D) - [C \cdot D \cdot (A + B)]}{\sqrt{[(A + B) \cdot N_u^2 + N_u \cdot B \cdot (C + D) - [C \cdot D \cdot (A + B)]]^2}} \qquad L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{[(A + B) \cdot N_u^2 + B \cdot (C + D) \cdot N_u - C \cdot D \cdot (A + B)]^2} \cdot (A \cdot C + B \cdot C - B \cdot N_u)}{\sqrt{N_u^2 \cdot (A \cdot C + B \cdot C - B \cdot N_u)^2 \cdot [(A + B) \cdot N_u^2 + B \cdot (C + D) \cdot N_u - C \cdot D \cdot (A + B)]}} = 0$$



$N_1 = 2.33168$
 $N_2 = 1.66336$
 $N_3 = 0.83511$
 $N_4 = 2.81833$
 $R = 1.96724$

Unit. $AB := 1$ Given. $N_1 := 2.33168$ $N_2 := 1.66336$ $N_3 := .83511$
 $N_4 := 2.81833$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

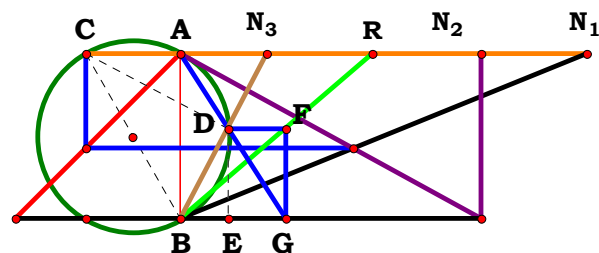
Descriptions.

$$\frac{N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]}{D \cdot (C^2 + N_u^2) \cdot (A + B)} = 1.967234 \quad \text{Num} := \frac{N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]}{\sqrt{[N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]]^2}} \quad \text{Den} := \frac{D \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[D \cdot (C^2 + N_u^2) \cdot (A + B)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u^2 \cdot [N_u \cdot (A + B) + B \cdot C] \cdot \sqrt{D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}}{D \cdot \sqrt{N_u^4 \cdot [N_u \cdot (A + B) + B \cdot C]^2 \cdot (C^2 + N_u^2) \cdot (A + B)}} = 0$$



$N_1 = 2.45760$
 $N_2 = 1.81833$
 $N_3 = 0.52517$
 $R = 1.15990$

Unit. AB := 1 Given. $N_1 := 2.45760$ $N_2 := 1.81833$ $N_3 := .52517$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{(\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{C} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B})]} = 1.159903$$

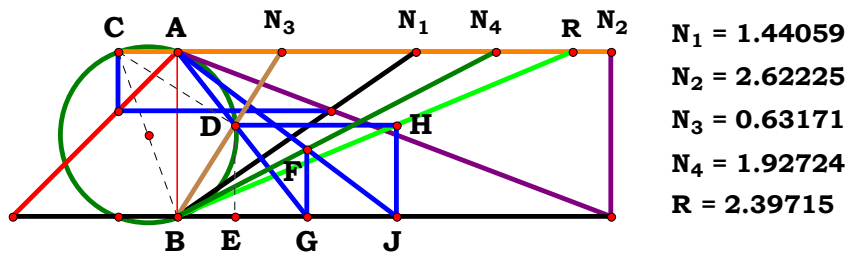
$$\mathbf{Num} := \frac{(\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{\left[(\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})\right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{C} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})]}{\sqrt{[\mathbf{C} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})]]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{C}^2 \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{B} \cdot \mathbf{C}]^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}}{\mathbf{C} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{B} \cdot \mathbf{C}] \cdot \sqrt{(\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.44059$ $N_2 := 2.62225$ $N_3 := .63171$
 $N_4 := 1.92724$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

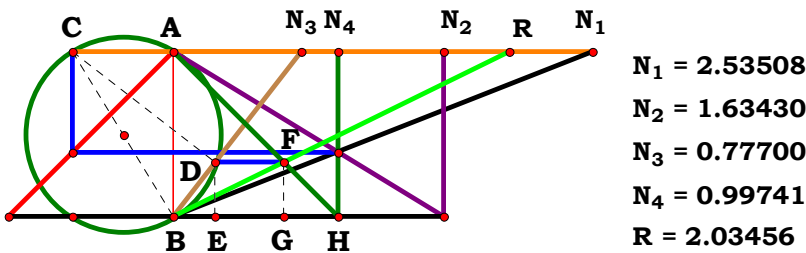
$$\frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{C \cdot (N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot B \cdot C \cdot (C + D)} = 2.397151 \quad \text{Num} := \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$

$$\text{Den} := \frac{C \cdot (N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot B \cdot C \cdot (C + D)}{\sqrt{[C \cdot (N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot B \cdot C \cdot (C + D)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{[C \cdot (A + B) \cdot (N_u^2 - C \cdot D) + B \cdot C \cdot N_u \cdot (C + D)]^2}}{[C \cdot (A + B) \cdot (N_u^2 - C \cdot D) + B \cdot C \cdot N_u \cdot (C + D)] \cdot \sqrt{N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.53508$ $N_2 := 1.63430$ $N_3 := .77700$
 $N_4 := .99741$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

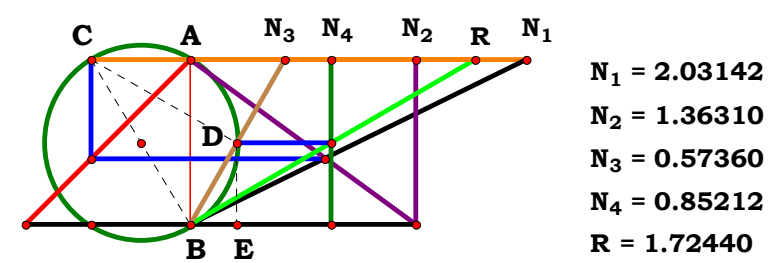
Descriptions.

$$\frac{N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]}{C \cdot D \cdot [C \cdot (A + B) - B \cdot N_u]} = 2.034581 \quad \text{Num} := \frac{N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]}{\sqrt{[N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]]^2}} \quad \text{Den} := \frac{C \cdot D \cdot [C \cdot (A + B) - B \cdot N_u]}{\sqrt{[C \cdot D \cdot [C \cdot (A + B) - B \cdot N_u]]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u^2 \cdot [N_u \cdot (A + B) + B \cdot C] \cdot \sqrt{C^2 \cdot D^2 \cdot [C \cdot (A + B) - B \cdot N_u]^2}}{C \cdot D \cdot \sqrt{N_u^4 \cdot [N_u \cdot (A + B) + B \cdot C]^2 \cdot [C \cdot (A + B) - B \cdot N_u]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.03142$ $N_2 := 1.36310$ $N_3 := .57360$
 $N_4 := .85212$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{C \cdot D \cdot [C \cdot (A + B) - B \cdot N_u]} = 1.724414$$

$$Num := \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$

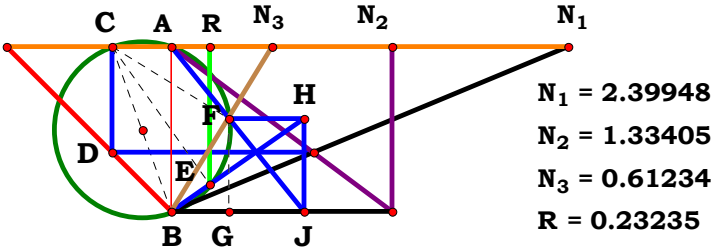
$$Den := \frac{C \cdot D \cdot [C \cdot (A + B) - B \cdot N_u]}{\sqrt{[C \cdot D \cdot [C \cdot (A + B) - B \cdot N_u]]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{C^2 \cdot D^2 \cdot [C \cdot (A + B) - B \cdot N_u]^2}}{C \cdot D \cdot [C \cdot (A + B) - B \cdot N_u] \cdot \sqrt{N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.33405$ $N_3 := .61234$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

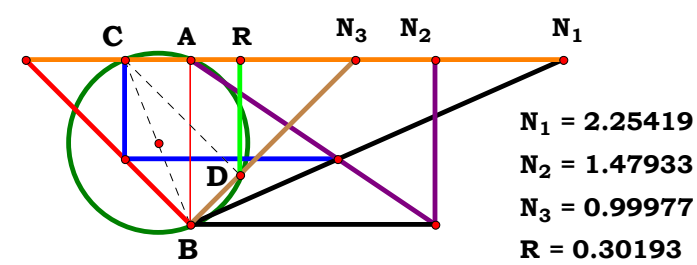
$$\frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left[C \cdot (A + B) - A \cdot N_u\right]}{N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right) \cdot (A + B)^2 + 2 \cdot N_u \cdot A \cdot C^3 \cdot (A + B) + C^4 \cdot \left(2 \cdot A^2 + 2 \cdot A \cdot B + B^2\right)} = 0.232351$$

$$Den := \frac{N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right) \cdot (A + B)^2 + 2 \cdot N_u \cdot A \cdot C^3 \cdot (A + B) + C^4 \cdot \left(2 \cdot A^2 + 2 \cdot A \cdot B + B^2\right)}{\sqrt{\left[N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right) \cdot (A + B)^2 + 2 \cdot N_u \cdot A \cdot C^3 \cdot (A + B) + C^4 \cdot \left(2 \cdot A^2 + 2 \cdot A \cdot B + B^2\right)\right]^2}}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \sqrt{\left[C^4 \cdot \left(2 \cdot A^2 + 2 \cdot A \cdot B + B^2\right) + N_u^2 \cdot (A + B)^2 \cdot \left(3 \cdot C^2 + N_u^2\right) + 2 \cdot A \cdot C^3 \cdot N_u \cdot (A + B)\right]^2} \cdot \left[C \cdot (A + B) - A \cdot N_u\right]}{\left[C^4 \cdot \left(2 \cdot A^2 + 2 \cdot A \cdot B + B^2\right) + N_u^2 \cdot (A + B)^2 \cdot \left(3 \cdot C^2 + N_u^2\right) + 2 \cdot A \cdot C^3 \cdot N_u \cdot (A + B)\right] \cdot \sqrt{N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2 \cdot \left[C \cdot (A + B) - A \cdot N_u\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.25419$ $N_2 := 1.47933$ $N_3 := .99977$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot [C \cdot (A + B) - A \cdot N_u]}{(C^2 + N_u^2) \cdot (A + B)} = 0.301931$$

$$Num := \frac{N_u \cdot [C \cdot (A + B) - A \cdot N_u]}{\sqrt{[N_u \cdot [C \cdot (A + B) - A \cdot N_u]]^2}}$$

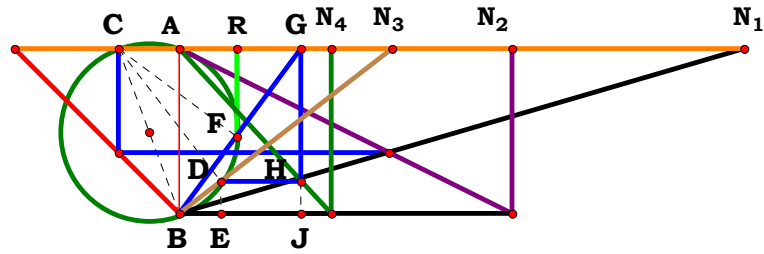
$$Den := \frac{(C^2 + N_u^2) \cdot (A + B)}{\sqrt{[(C^2 + N_u^2) \cdot (A + B)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot [C \cdot (A + B) - A \cdot N_u] \cdot \sqrt{(C^2 + N_u^2)^2 \cdot (A + B)^2}}{\sqrt{N_u^2 \cdot [C \cdot (A + B) - A \cdot N_u]^2 \cdot (C^2 + N_u^2) \cdot (A + B)}} = 0$$



$N_1 = 3.41649$
 $N_2 = 2.01205$
 $N_3 = 1.29034$
 $N_4 = 0.91992$
 $R = 0.34702$

Unit. $AB := 1$ Given. $N_1 := 3.41649$ $N_2 := 2.01205$ $N_3 := 1.29034$
 $N_4 := .91992$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)] \cdot [D \cdot (C^2 + N_u^2) \cdot (A + B)^2 - [A \cdot N_u^2 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)]]}{\left[D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2 + N_u^4 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)^2 \right] \cdot (A + B)} = 0.347019$$

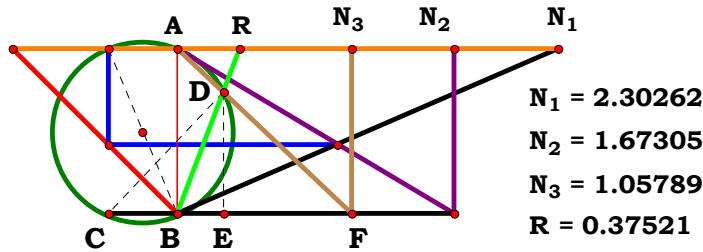
$$Num := \frac{N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)] \cdot [D \cdot (C^2 + N_u^2) \cdot (A + B)^2 - [A \cdot N_u^2 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)]]}{\sqrt{\left[N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)] \cdot [D \cdot (C^2 + N_u^2) \cdot (A + B)^2 - [A \cdot N_u^2 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)]] \right]^2}}$$

$$Den := \frac{\left[D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2 + N_u^4 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)^2 \right] \cdot (A + B)}{\sqrt{\left[\left[D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2 + N_u^4 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)^2 \right] \cdot (A + B) \right]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u^2 \cdot \sqrt{\left[N_u^4 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)^2 + D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2 \right]^2 \cdot (A + B)^2 \cdot [N_u \cdot (A + B) + A \cdot C] \cdot [A \cdot N_u^2 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u) - D \cdot (C^2 + N_u^2) \cdot (A + B)^2]}}{\left[N_u^4 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u)^2 + D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2 \right] \cdot (A + B) \cdot \sqrt{N_u^4 \cdot [N_u \cdot (A + B) + A \cdot C]^2 \cdot [A \cdot N_u^2 \cdot (A \cdot C + A \cdot N_u + B \cdot N_u) - D \cdot (C^2 + N_u^2) \cdot (A + B)^2]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.30262$ $N_2 := 1.67305$ $N_3 := 1.05789$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{C \cdot (A + B) - A \cdot N_u}{A \cdot C + N_u \cdot (A + B)} = 0.375202$$

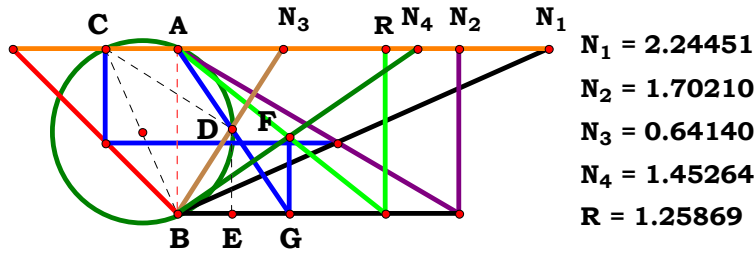
$$Num := \frac{C \cdot (A + B) - A \cdot N_u}{\sqrt{[C \cdot (A + B) - A \cdot N_u]^2}}$$

$$Den := \frac{A \cdot C + N_u \cdot (A + B)}{\sqrt{[A \cdot C + N_u \cdot (A + B)]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\sqrt{[N_u \cdot (A + B) + A \cdot C]^2} \cdot [C \cdot (A + B) - A \cdot N_u]}{\sqrt{[C \cdot (A + B) - A \cdot N_u]^2} \cdot [N_u \cdot (A + B) + A \cdot C]} = 0$$



Descriptions.

$$\frac{N_u \cdot [C \cdot (A + B) - A \cdot N_u]}{(N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot A \cdot (C + D)} = 1.258684 \quad \text{Num} := \frac{N_u \cdot [C \cdot (A + B) - A \cdot N_u]}{\sqrt{[N_u \cdot [C \cdot (A + B) - A \cdot N_u]]^2}}$$

Definitions.

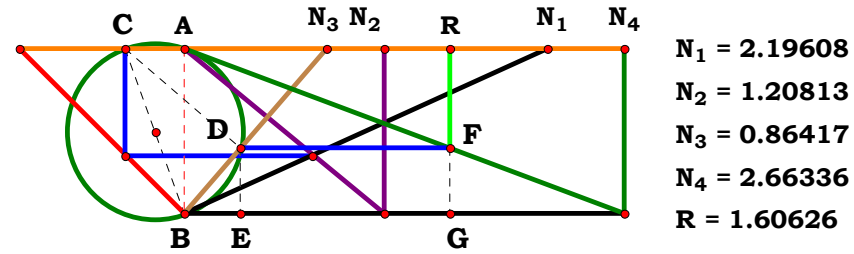
$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot [C \cdot (A + B) - A \cdot N_u] \cdot \sqrt{[(A + B) \cdot (N_u^2 - C \cdot D) + A \cdot N_u \cdot (C + D)]^2}}{\sqrt{N_u^2 \cdot [C \cdot (A + B) - A \cdot N_u]^2 \cdot [(A + B) \cdot (N_u^2 - C \cdot D) + A \cdot N_u \cdot (C + D)]}} = 0$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.24451 \quad N_2 := 1.70210 \quad N_3 := .64140 \quad N_4 := 1.45264$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

$$\text{Den} := \frac{(N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot A \cdot (C + D)}{\sqrt{[(N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot A \cdot (C + D)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$



Unit. $AB := 1$ **Given.** $N_1 := 2.19608$ $N_2 := 1.20813$ $N_3 := .86417$
 $N_4 := 2.66336$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

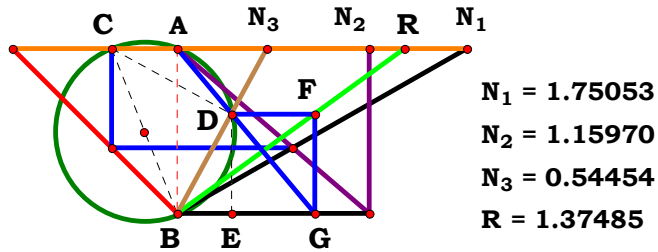
Descriptions.

$$\frac{\mathbf{N_u}^2 \cdot [\mathbf{A} \cdot \mathbf{C} + \mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})]}{\mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})} = 1.606255 \quad \mathbf{Num} := \frac{\mathbf{N_u}^2 \cdot [\mathbf{A} \cdot \mathbf{C} + \mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})]}{\sqrt{[\mathbf{N_u}^2 \cdot [\mathbf{A} \cdot \mathbf{C} + \mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})]]^2}} \quad \mathbf{Den} := \frac{\mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N_u}^2 \cdot [\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{C}] \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{C}^2 + \mathbf{N_u}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2}}{\mathbf{D} \cdot \sqrt{\mathbf{N_u}^4 \cdot [\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{C}]^2 \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 1.15970$ $N_3 := .54454$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{\left(C^2+N_u^2\right)\cdot\left(A+B\right)}{C\cdot\left[A\cdot C+N_u\cdot\left(A+B\right)\right]}=1.374848$$

$$Num := \frac{\left(C^2+N_u^2\right)\cdot\left(A+B\right)}{\sqrt{\left[\left(C^2+N_u^2\right)\cdot\left(A+B\right)\right]^2}}$$

$$Den := \frac{C\cdot\left[A\cdot C+N_u\cdot\left(A+B\right)\right]}{\sqrt{\left[C\cdot\left[A\cdot C+N_u\cdot\left(A+B\right)\right]\right]^2}} \quad L := \frac{Num}{Den}$$

Definitions.

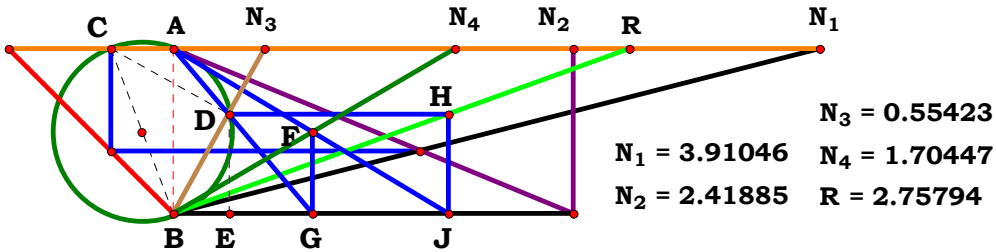
$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\sqrt{C^2\cdot\left[N_u\cdot\left(A+B\right)+A\cdot C\right]^2}\cdot\left(C^2+N_u^2\right)\cdot\left(A+B\right)}{C\cdot\left[N_u\cdot\left(A+B\right)+A\cdot C\right]\cdot\sqrt{\left(C^2+N_u^2\right)^2\cdot\left(A+B\right)^2}}=0$$



4RST1AB4R7

Descriptions.



Unit. $AB := 1$ Given. $N_1 := 3.91046$ $N_2 := 2.41885$ $N_3 := .55423$

$N_4 := 1.70447$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$$\frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{C \cdot (N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot A \cdot C \cdot (C + D)} = 2.757919$$

$$Num := \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$

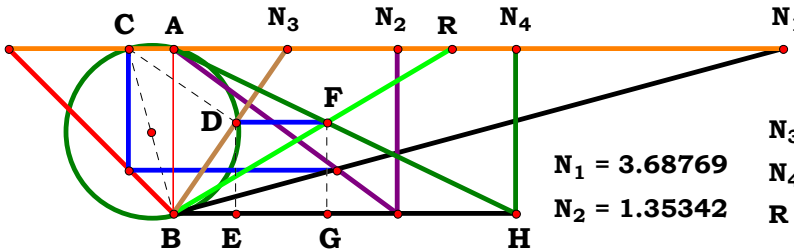
$$Den := \frac{C \cdot (N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot A \cdot C \cdot (C + D)}{\sqrt{[C \cdot (N_u^2 - C \cdot D) \cdot (A + B) + N_u \cdot A \cdot C \cdot (C + D)]^2}}$$

$$L := \frac{Num}{Den}$$

Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{[C \cdot (A + B) \cdot (N_u^2 - C \cdot D) + A \cdot C \cdot N_u \cdot (C + D)]^2}}{[C \cdot (A + B) \cdot (N_u^2 - C \cdot D) + A \cdot C \cdot N_u \cdot (C + D)] \cdot \sqrt{N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



$$\begin{aligned} N_1 &= 3.68769 \\ N_2 &= 1.35342 \\ N_3 &= 0.68983 \\ N_4 &= 2.07253 \\ R &= 1.68148 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= 3.68769 & N_2 &:= 1.35342 & N_3 &:= .68983 \\ N_4 &:= 2.07253 \end{aligned}$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

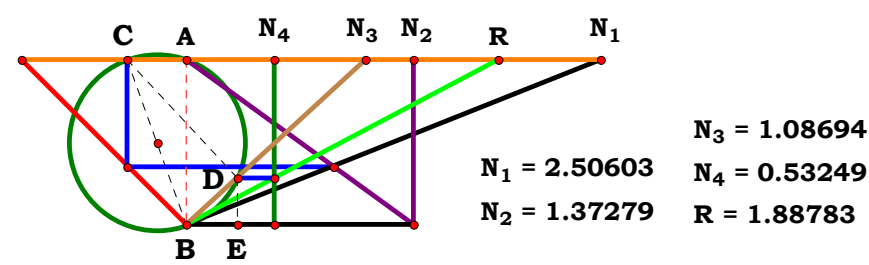
Descriptions.

$$\frac{N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)]}{C \cdot D \cdot [A \cdot C + (B \cdot C - A \cdot N_u)]} = 1.681505 \quad \text{Num} := \frac{N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)]}{\sqrt{[N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)]]^2}} \quad \text{Den} := \frac{C \cdot D \cdot [A \cdot C + (B \cdot C - A \cdot N_u)]}{\sqrt{[C \cdot D \cdot [A \cdot C + (B \cdot C - A \cdot N_u)]]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u^2 \cdot [N_u \cdot (A + B) + A \cdot C] \cdot \sqrt{C^2 \cdot D^2 \cdot (A \cdot C + B \cdot C - A \cdot N_u)^2}}{C \cdot D \cdot \sqrt{N_u^4 \cdot [N_u \cdot (A + B) + A \cdot C]^2 \cdot (A \cdot C + B \cdot C - A \cdot N_u)}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.50603 \quad N_2 := 1.37279 \quad N_3 := 1.08694$$

$$N_4 := .53249$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B)}{C \cdot D \cdot \left[C \cdot (A + B) - A \cdot N_u\right]} = 1.887817$$

$$\text{Num} := \frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B)}{\sqrt{\left[N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2}}$$

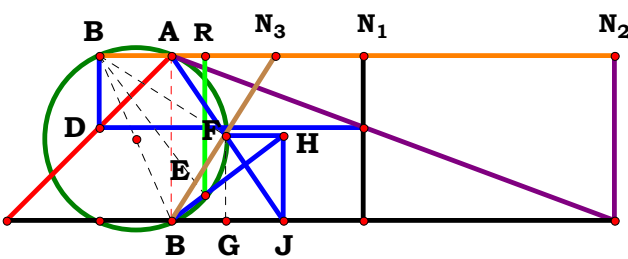
$$\text{Den} := \frac{C \cdot D \cdot \left[C \cdot (A + B) - A \cdot N_u\right]}{\sqrt{\left[C \cdot D \cdot \left[C \cdot (A + B) - A \cdot N_u\right]\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Definitions.

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \sqrt{C^2 \cdot D^2 \cdot \left[C \cdot (A + B) - A \cdot N_u\right]^2}}{C \cdot D \cdot \left[C \cdot (A + B) - A \cdot N_u\right] \cdot \sqrt{N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2}} = 0$$



N₁ = 1.15970
N₂ = 2.68037
N₃ = 0.63171
R = 0.20783

Unit. **AB** := 1 **Given.** **N₁** := 1.15970 **N₂** := 2.68037 **N₃** := .63171

$$\mathbf{N_u} := 3 \qquad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \qquad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \qquad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{A \cdot N_u} \cdot \left(\mathbf{C^2 + N_u^2}\right) \cdot \left(\mathbf{A \cdot C - B \cdot N_u}\right)}{\mathbf{A \cdot N_u} \cdot \left[\mathbf{C^2 \cdot \left(2 \cdot B \cdot C + 3 \cdot A \cdot N_u\right) + A \cdot N_u^3}\right] + \mathbf{C^4 \cdot \left(A^2 + B^2}\right)} = \mathbf{0.207828}$$

$$\mathbf{Num} := \frac{\mathbf{A \cdot N_u} \cdot \left(\mathbf{C^2 + N_u^2}\right) \cdot \left(\mathbf{A \cdot C - B \cdot N_u}\right)}{\sqrt{\left[\mathbf{A \cdot N_u} \cdot \left(\mathbf{C^2 + N_u^2}\right) \cdot \left(\mathbf{A \cdot C - B \cdot N_u}\right)\right]^2}}$$

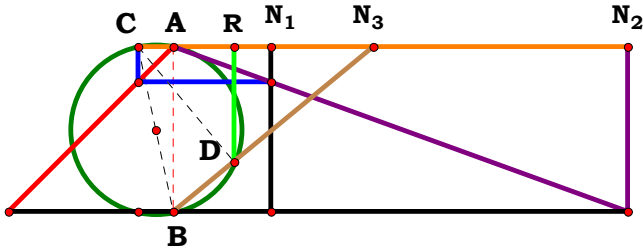
$$\mathbf{Den} := \frac{\mathbf{A \cdot N_u} \cdot \left[\mathbf{C^2 \cdot \left(2 \cdot B \cdot C + 3 \cdot A \cdot N_u\right) + A \cdot N_u^3}\right] + \mathbf{C^4 \cdot \left(A^2 + B^2}\right)}{\sqrt{\left[\mathbf{A \cdot N_u} \cdot \left[\mathbf{C^2 \cdot \left(2 \cdot B \cdot C + 3 \cdot A \cdot N_u\right) + A \cdot N_u^3}\right] + \mathbf{C^4 \cdot \left(A^2 + B^2}\right)}\right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Definitions.

$$\mathbf{Num} = 1 \qquad \mathbf{Den} = 1 \qquad \mathbf{L} = 1$$

$$\mathbf{L} - \frac{\mathbf{A \cdot N_u} \cdot \left(\mathbf{C^2 + N_u^2}\right) \cdot \left(\mathbf{A \cdot C - B \cdot N_u}\right) \cdot \sqrt{\left[\mathbf{C^4 \cdot \left(A^2 + B^2}\right) + A \cdot N_u \cdot \left[\mathbf{C^2 \cdot \left(2 \cdot B \cdot C + 3 \cdot A \cdot N_u\right) + A \cdot N_u^3}\right]\right]^2}}{\left[\mathbf{C^4 \cdot \left(A^2 + B^2}\right) + A \cdot N_u \cdot \left[\mathbf{C^2 \cdot \left(2 \cdot B \cdot C + 3 \cdot A \cdot N_u\right) + A \cdot N_u^3}\right]\right] \cdot \sqrt{\mathbf{A^2 \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot \left(A \cdot C - B \cdot N_u\right)^2}}} = 0$$



$N_1 = 0.58824$
 $N_2 = 2.74817$
 $N_3 = 1.21286$
 $R = 0.36341$

Unit. $AB := 1$ Given. $N_1 := .58824$ $N_2 := 2.74817$ $N_3 := 1.21286$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A \cdot C - B \cdot N_u)}{A \cdot (C^2 + N_u^2)} = 0.363407$$

$$Num := \frac{N_u \cdot (A \cdot C - B \cdot N_u)}{\sqrt{[N_u \cdot (A \cdot C - B \cdot N_u)]^2}}$$

$$Den := \frac{A \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot (C^2 + N_u^2)]^2}}$$

$$L := \frac{Num}{Den}$$

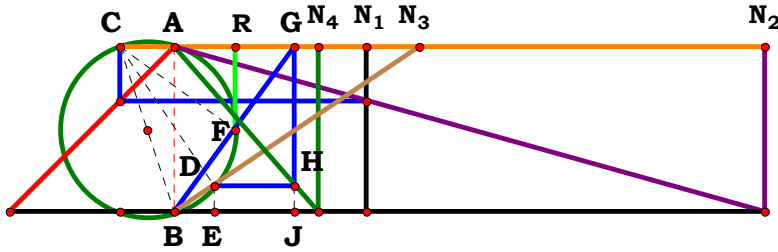
Definitions.

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{A^2 \cdot (C^2 + N_u^2)^2} \cdot (A \cdot C - B \cdot N_u)}{A \cdot (C^2 + N_u^2) \cdot \sqrt{N_u^2 \cdot (A \cdot C - B \cdot N_u)^2}} = 0$$



4RST1AB5R2



$N_1 = 1.15970$
 $N_2 = 3.57146$
 $N_3 = 1.48406$
 $N_4 = 0.87149$
 $R = 0.36334$

Unit. $AB := 1$ Given. $N_1 := 1.15970$ $N_2 := 3.57146$ $N_3 := 1.48406$
 $N_4 := .87149$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^2 \cdot (B \cdot C + A \cdot N_u) \cdot \left[D \cdot A^2 \cdot (C^2 + N_u^2) - B \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u) \right]}{A^3 \cdot D^2 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (B \cdot C + A \cdot N_u)^2} = 0.363336$$

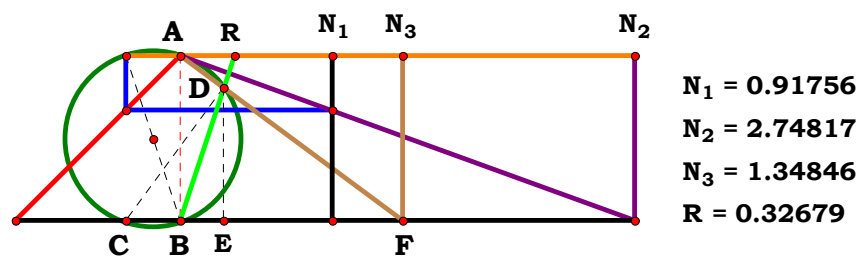
$$Num := \frac{N_u^2 \cdot (B \cdot C + A \cdot N_u) \cdot \left[D \cdot A^2 \cdot (C^2 + N_u^2) - B \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u) \right]}{\sqrt{\left[N_u^2 \cdot (B \cdot C + A \cdot N_u) \cdot \left[D \cdot A^2 \cdot (C^2 + N_u^2) - B \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u) \right] \right]^2}}$$

$$Den := \frac{A^3 \cdot D^2 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (B \cdot C + A \cdot N_u)^2}{\sqrt{\left[A^3 \cdot D^2 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (B \cdot C + A \cdot N_u)^2 \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^2 \cdot \sqrt{\left[A^3 \cdot D^2 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (B \cdot C + A \cdot N_u)^2 \right]^2} \cdot \left[A^2 \cdot D \cdot (C^2 + N_u^2) - B \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u) \right] \cdot (B \cdot C + A \cdot N_u)}{\left[A^3 \cdot D^2 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (B \cdot C + A \cdot N_u)^2 \right] \cdot \sqrt{N_u^4 \cdot \left[A^2 \cdot D \cdot (C^2 + N_u^2) - B \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u) \right]^2 \cdot (B \cdot C + A \cdot N_u)^2}} = 0$$



Unit. AB := 1 Given. $N_1 := .91756$ $N_2 := 2.74817$ $N_3 := 1.34846$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{A \cdot C - B \cdot N_u}{B \cdot C + A \cdot N_u} = 0.326792$$

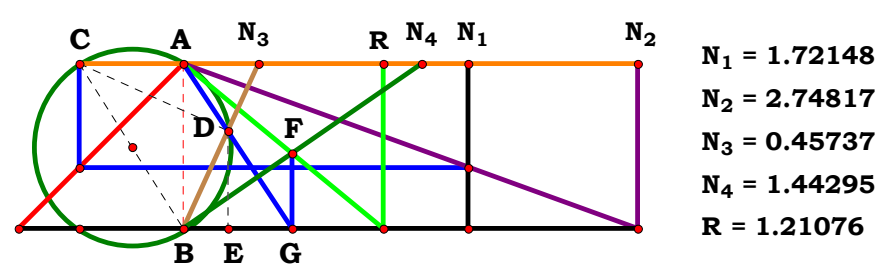
$$\mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u}{\sqrt{(\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u)^2}}$$

$$\text{Den} := \frac{\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{(\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{(\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})^2} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{(\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})} = \mathbf{0}$$



Unit.
 $AB := 1$
Given.
 $N_1 := 1.72148$
 $N_2 := 2.74817$
 $N_3 := .45737$
 $N_4 := 1.44295$

$N_u := 3$
 $A := \frac{N_u}{N_1}$
 $B := \frac{N_u}{N_2}$
 $C := \frac{N_u}{N_3}$
 $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (A \cdot C - B \cdot N_u)}{A \cdot (N_u^2 - C \cdot D) + B \cdot N_u \cdot (C + D)} = 1.210742$$

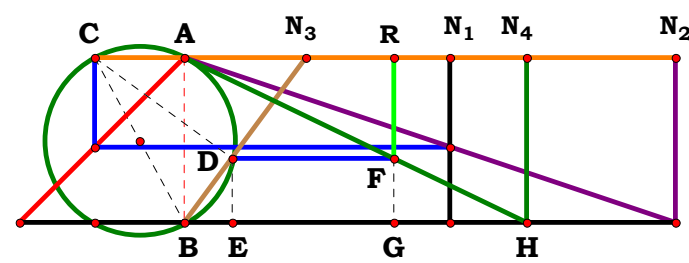
$$Num := \frac{N_u \cdot (A \cdot C - B \cdot N_u)}{\sqrt{[N_u \cdot (A \cdot C - B \cdot N_u)]^2}}$$

$$Den := \frac{A \cdot (N_u^2 - C \cdot D) + B \cdot N_u \cdot (C + D)}{\sqrt{[A \cdot (N_u^2 - C \cdot D) + B \cdot N_u \cdot (C + D)]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$
 $Den = 1$
 $L = 1$

$$L - \frac{N_u \cdot \sqrt{[A \cdot (N_u^2 - C \cdot D) + B \cdot N_u \cdot (C + D)]^2} \cdot (A \cdot C - B \cdot N_u)}{\sqrt{N_u^2 \cdot (A \cdot C - B \cdot N_u)^2 \cdot [A \cdot (N_u^2 - C \cdot D) + B \cdot N_u \cdot (C + D)]}} = 0$$



N₁ = 1.60525
N₂ = 2.97094
N₃ = 0.73826
N₄ = 2.07253
R = 1.26619

Unit. AB := 1 Given. N₁ := 1.60525 N₂ := 2.9709 N₃ := .73826

N₄ := 2.07253

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^2 \cdot (B \cdot C + A \cdot N_u)}{A \cdot D \cdot (C^2 + N_u^2)} = 1.266203$$

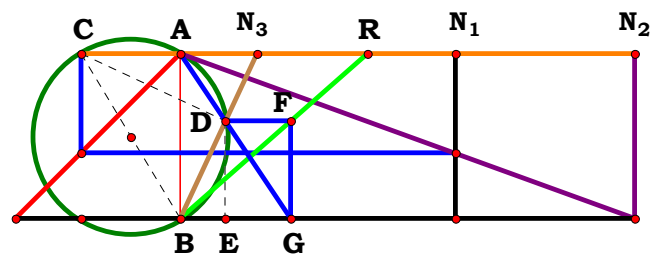
Num := $\frac{N_u^2 \cdot (B \cdot C + A \cdot N_u)}{\sqrt{[N_u^2 \cdot (B \cdot C + A \cdot N_u)]^2}}$

Den := $\frac{A \cdot D \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot D \cdot (C^2 + N_u^2)]^2}}$

L := $\frac{Num}{Den}$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^2 \cdot (B \cdot C + A \cdot N_u) \cdot \sqrt{A^2 \cdot D^2 \cdot (C^2 + N_u^2)^2}}{A \cdot D \cdot (C^2 + N_u^2) \cdot \sqrt{N_u^4 \cdot (B \cdot C + A \cdot N_u)^2}} = 0$$



N₁ = 1.66336
N₂ = 2.74817
N₃ = 0.46705
R = 1.13599

Unit. AB := 1 Given. $N_1 := 1.66336$ $N_2 := 2.74817$ $N_3 := .46705$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{N}_u \cdot \mathbf{C}} = 1.135991$$

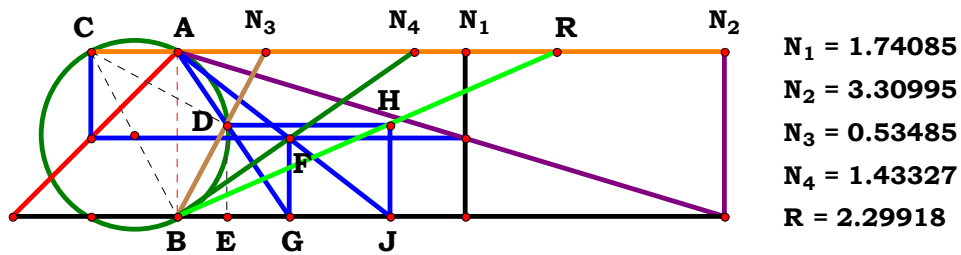
$$\mathbf{Num} := \frac{\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{\sqrt{[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{C}}{\sqrt{(\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{C})^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \sqrt{(\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{C})^2} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2} \cdot (\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{C})} = \mathbf{0}$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.74085 \quad N_2 := 3.30995 \quad N_3 := .53485$$

$$N_4 := 1.43347$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

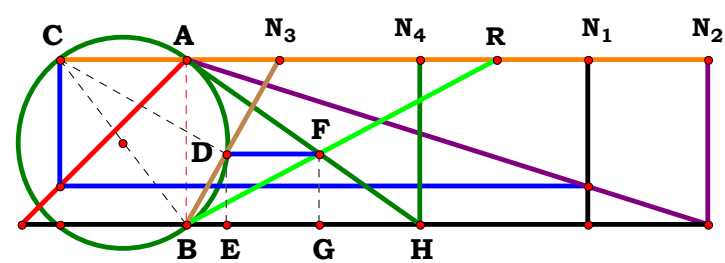
$$\frac{A \cdot N_u \cdot (C^2 + N_u^2)}{A \cdot C \cdot (N_u^2 - C \cdot D) + B \cdot C \cdot N_u \cdot (C + D)} = 2.298906$$

$$\text{Num} := \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{\left[A \cdot N_u \cdot (C^2 + N_u^2)\right]^2}}$$

$$\text{Den} := \frac{A \cdot C \cdot (N_u^2 - C \cdot D) + B \cdot C \cdot N_u \cdot (C + D)}{\sqrt{\left[A \cdot C \cdot (N_u^2 - C \cdot D) + B \cdot C \cdot N_u \cdot (C + D)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot \sqrt{\left[A \cdot C \cdot (N_u^2 - C \cdot D) + B \cdot C \cdot N_u \cdot (C + D)\right]^2}}{\left[A \cdot C \cdot (N_u^2 - C \cdot D) + B \cdot C \cdot N_u \cdot (C + D)\right] \cdot \sqrt{A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



N₁ = 2.42854
N₂ = 3.15497
N₃ = 0.56391
N₄ = 1.41390
R = 1.87893

Unit.
AB := 1
Given.
N₁ := 2.42854
N₂ := 3.15497
N₃ := .56391

N₄ := 1.41390

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^2 \cdot (B \cdot C + A \cdot N_u)}{D \cdot (A \cdot C^2 - B \cdot C \cdot N_u)} = 1.878932$$

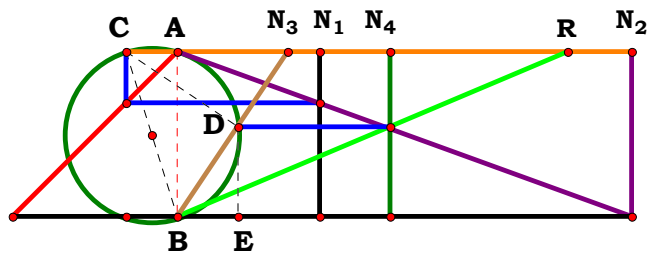
Num :=
$$\frac{N_u^2 \cdot (B \cdot C + A \cdot N_u)}{\sqrt{\left[N_u^2 \cdot (B \cdot C + A \cdot N_u)\right]^2}}$$

Den :=
$$\frac{D \cdot (A \cdot C^2 - B \cdot C \cdot N_u)}{\sqrt{\left[D \cdot (A \cdot C^2 - B \cdot C \cdot N_u)\right]^2}}$$

L :=
$$\frac{Num}{Den}$$

Num = 1
Den = 1
L = 1

L -
$$\frac{N_u^2 \cdot \sqrt{D^2 \cdot (A \cdot C^2 - B \cdot C \cdot N_u)^2} \cdot (B \cdot C + A \cdot N_u)}{D \cdot \sqrt{N_u^4 \cdot (B \cdot C + A \cdot N_u)^2} \cdot (A \cdot C^2 - B \cdot C \cdot N_u)} = 0$$



$N_1 = 0.85944$
 $N_2 = 2.74817$
 $N_3 = 0.67045$
 $N_4 = 1.28798$
 $R = 2.36224$

Unit. $AB := 1$ Given. $N_1 := .85944$ $N_2 := 2.74817$ $N_3 := .67045$

$N_4 := 1.28798$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{A \cdot N_u \cdot (C^2 + N_u^2)}{D \cdot [C \cdot (A \cdot C - B \cdot N_u)]} = 2.36222$$

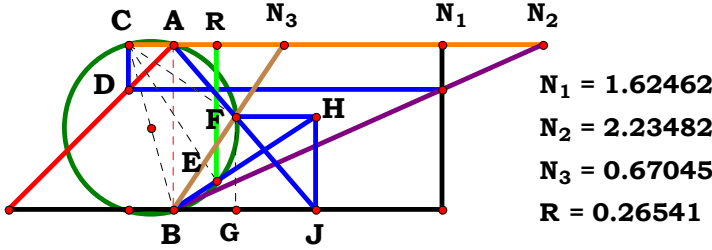
$$\text{Num} := \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot N_u \cdot (C^2 + N_u^2)]^2}}$$

$$\text{Den} := \frac{D \cdot [C \cdot (A \cdot C - B \cdot N_u)]}{\sqrt{[D \cdot [C \cdot (A \cdot C - B \cdot N_u)]]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot \sqrt{C^2 \cdot D^2 \cdot (A \cdot C - B \cdot N_u)^2}}{C \cdot D \cdot (A \cdot C - B \cdot N_u) \cdot \sqrt{A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.62462$ $N_2 := 2.23482$ $N_3 := .67045$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{A \cdot N_u \cdot \left(C^2 + N_u^2\right) \cdot \left[A \cdot C + N_u \cdot (B - A)\right]}{C^4 \cdot \left(2 \cdot A^2 - 2 \cdot A \cdot B + B^2\right) + 2 \cdot C^3 \cdot A \cdot N_u \cdot (A - B) + A^2 \cdot N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right)} = 0.265414$$

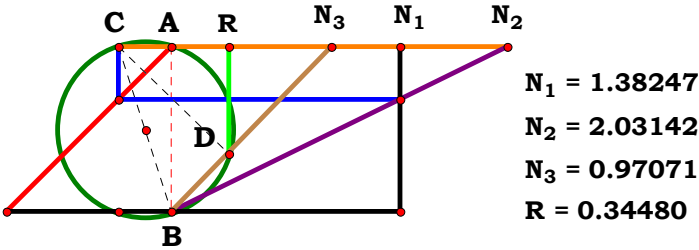
$$Den := \frac{C^4 \cdot \left(2 \cdot A^2 - 2 \cdot A \cdot B + B^2\right) + 2 \cdot C^3 \cdot A \cdot N_u \cdot (A - B) + A^2 \cdot N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right)}{\sqrt{\left[C^4 \cdot \left(2 \cdot A^2 - 2 \cdot A \cdot B + B^2\right) + 2 \cdot C^3 \cdot A \cdot N_u \cdot (A - B) + A^2 \cdot N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right)\right]^2}}$$

$$Num := \frac{A \cdot N_u \cdot \left(C^2 + N_u^2\right) \cdot \left[A \cdot C + N_u \cdot (B - A)\right]}{\sqrt{\left[A \cdot N_u \cdot \left(C^2 + N_u^2\right) \cdot \left[A \cdot C + N_u \cdot (B - A)\right]\right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{A \cdot N_u \cdot \left[A \cdot C - N_u \cdot (A - B)\right] \cdot \sqrt{\left[C^4 \cdot \left(2 \cdot A^2 - 2 \cdot A \cdot B + B^2\right) + A^2 \cdot N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right) + 2 \cdot A \cdot C^3 \cdot N_u \cdot (A - B)\right]^2} \cdot \left(C^2 + N_u^2\right)}{\left[C^4 \cdot \left(2 \cdot A^2 - 2 \cdot A \cdot B + B^2\right) + A^2 \cdot N_u^2 \cdot \left(3 \cdot C^2 + N_u^2\right) + 2 \cdot A \cdot C^3 \cdot N_u \cdot (A - B)\right] \cdot \sqrt{A^2 \cdot N_u^2 \cdot \left[A \cdot C - N_u \cdot (A - B)\right]^2 \cdot \left(C^2 + N_u^2\right)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .97071$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot [A \cdot C + N_u \cdot (B - A)]}{A \cdot (C^2 + N_u^2)} = 0.344798$$

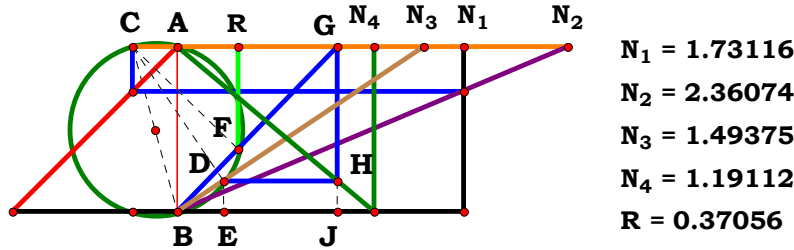
$$Num := \frac{N_u \cdot [A \cdot C + N_u \cdot (B - A)]}{\sqrt{[N_u \cdot [A \cdot C + N_u \cdot (B - A)]]^2}}$$

$$Den := \frac{A \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot (C^2 + N_u^2)]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot [A \cdot C - N_u \cdot (A - B)] \cdot \sqrt{A^2 \cdot (C^2 + N_u^2)^2}}{A \cdot (C^2 + N_u^2) \cdot \sqrt{N_u^2 \cdot [A \cdot C - N_u \cdot (A - B)]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.73116$ $N_2 := 2.36074$ $N_3 := 1.49375$
 $N_4 := 1.19112$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

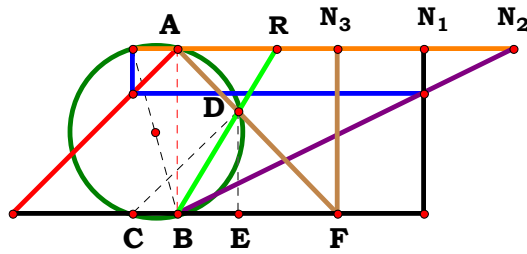
Descriptions.

$$\frac{N_u^2 \cdot \left[C \cdot (A - B) + A \cdot N_u \right] \cdot \left[A^2 \cdot (C^2 + N_u^2) \cdot D + N_u^2 \cdot (B - A) \cdot \left[C \cdot (A - B) + A \cdot N_u \right] \right]}{D^2 \cdot A^3 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (A \cdot C - B \cdot C + A \cdot N_u)^2} = 0.370564$$

$$Den := \frac{D^2 \cdot A^3 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (A \cdot C - B \cdot C + A \cdot N_u)^2}{\sqrt{\left[D^2 \cdot A^3 \cdot (C^2 + N_u^2)^2 + A \cdot N_u^4 \cdot (A \cdot C - B \cdot C + A \cdot N_u)^2 \right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{N_u^2 \cdot \left[A \cdot N_u + C \cdot (A - B) \right] \cdot \left[A^2 \cdot D \cdot (C^2 + N_u^2) - N_u^2 \cdot \left[A \cdot N_u + C \cdot (A - B) \right] \cdot (A - B) \right] \cdot \sqrt{\left[A \cdot N_u^4 \cdot (A \cdot C - B \cdot C + A \cdot N_u)^2 + A^3 \cdot D^2 \cdot (C^2 + N_u^2)^2 \right]^2}}{\left[A \cdot N_u^4 \cdot (A \cdot C - B \cdot C + A \cdot N_u)^2 + A^3 \cdot D^2 \cdot (C^2 + N_u^2)^2 \right] \cdot \sqrt{N_u^4 \cdot \left[A \cdot N_u + C \cdot (A - B) \right]^2 \cdot \left[A^2 \cdot D \cdot (C^2 + N_u^2) - N_u^2 \cdot \left[A \cdot N_u + C \cdot (A - B) \right] \cdot (A - B) \right]^2}} = 0$$



$N_1 = 1.48902$
 $N_2 = 2.03142$
 $N_3 = 0.97071$
 $R = 0.59853$

Unit. $AB := 1$ Given. $N_1 := 1.48902$ $N_2 := 2.03142$ $N_3 := .97071$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{A \cdot C + N_u \cdot (B - A)}{C \cdot (A - B) + A \cdot N_u} = 0.598534$$

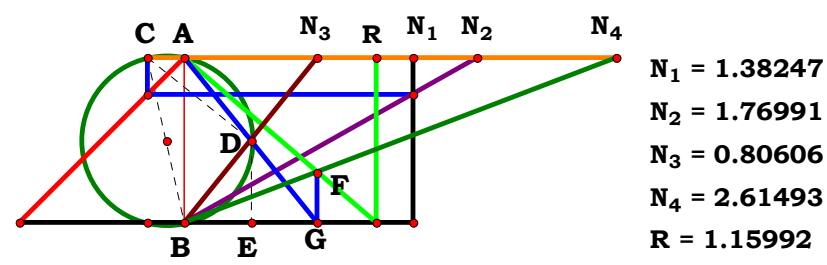
$$Num := \frac{A \cdot C + N_u \cdot (B - A)}{\sqrt{[A \cdot C + N_u \cdot (B - A)]^2}}$$

$$Den := \frac{C \cdot (A - B) + A \cdot N_u}{\sqrt{[C \cdot (A - B) + A \cdot N_u]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1 \quad Den = 1 \quad L = 1$

$$L - \frac{[A \cdot C - N_u \cdot (A - B)] \cdot \sqrt{[A \cdot N_u + C \cdot (A - B)]^2}}{[A \cdot N_u + C \cdot (A - B)] \cdot \sqrt{[A \cdot C - N_u \cdot (A - B)]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 1.76991$ $N_3 := .80606$
 $N_4 := 2.61493$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot [A \cdot C + N_u \cdot (B - A)]}{A \cdot N_u^2 + N_u \cdot (C + D) \cdot (A - B) - A \cdot C \cdot D} = 1.159894$$

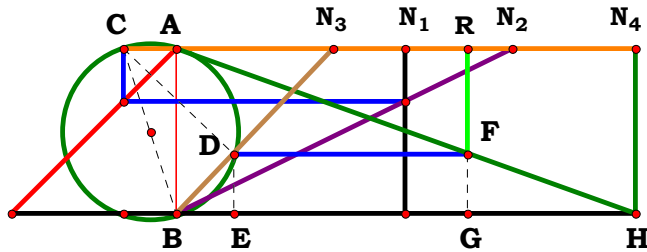
$$Num := \frac{N_u \cdot [A \cdot C + N_u \cdot (B - A)]}{\sqrt{[N_u \cdot [A \cdot C + N_u \cdot (B - A)]]^2}}$$

$$Den := \frac{A \cdot N_u^2 + N_u \cdot (C + D) \cdot (A - B) - A \cdot C \cdot D}{\sqrt{[A \cdot N_u^2 + N_u \cdot (C + D) \cdot (A - B) - A \cdot C \cdot D]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot [A \cdot C - N_u \cdot (A - B)] \cdot \sqrt{[A \cdot N_u^2 + (C + D) \cdot (A - B) \cdot N_u - A \cdot C \cdot D]^2}}{\sqrt{N_u^2 \cdot [A \cdot C - N_u \cdot (A - B)]^2 \cdot [A \cdot N_u^2 + (C + D) \cdot (A - B) \cdot N_u - A \cdot C \cdot D]}} = 0$$



N₁ = 1.38247
N₂ = 2.03142
N₃ = 0.95134
N₄ = 2.77959
R = 1.76395

Unit. AB := 1 Given. N₁ := 1.38247 N₂ := 2.03142 N₃ := .95134
N₄ := 2.77959

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

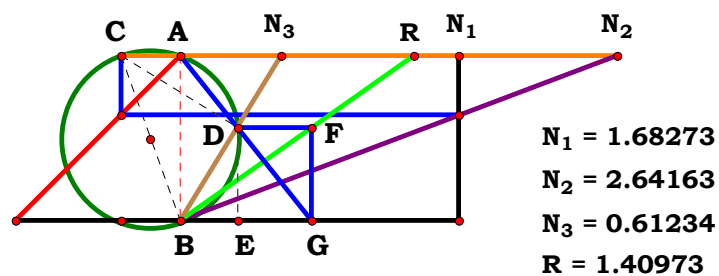
$\frac{N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]}{A \cdot D \cdot (C^2 + N_u^2)} = 1.763951$

Num := $\frac{N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]}{\sqrt{[N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]]^2}}$

Den := $\frac{A \cdot D \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot D \cdot (C^2 + N_u^2)]^2}}$ L := $\frac{Num}{Den}$

Num = 1 Den = 1 L = 1

$L - \frac{N_u^2 \cdot [A \cdot N_u + C \cdot (A - B)] \cdot \sqrt{A^2 \cdot D^2 \cdot (C^2 + N_u^2)^2}}{A \cdot D \cdot (C^2 + N_u^2) \cdot \sqrt{N_u^4 \cdot [A \cdot N_u + C \cdot (A - B)]^2}} = 0$



Unit. AB := 1 Given. $N_1 := 1.68273$ $N_2 := 2.64163$ $N_3 := .61234$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{\mathbf{C} \cdot [\mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{N}_u]} = 1.40973$$

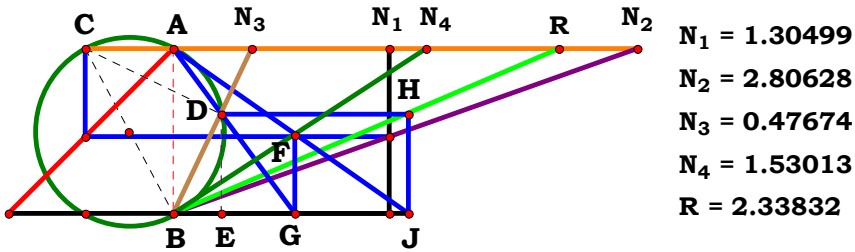
$$\mathbf{Num} := \frac{\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{\sqrt{[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{C} \cdot [\mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}]}{\sqrt{[\mathbf{C} \cdot [\mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}]]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot \sqrt{\mathbf{C}^2 \cdot [\mathbf{A} \cdot \mathbf{N}_u + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})]^2}}{\mathbf{C} \cdot [\mathbf{A} \cdot \mathbf{N}_u + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})] \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)^2}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.30499$ $N_2 := 2.80628$ $N_3 := .47674$

$N_4 := 1.53013$

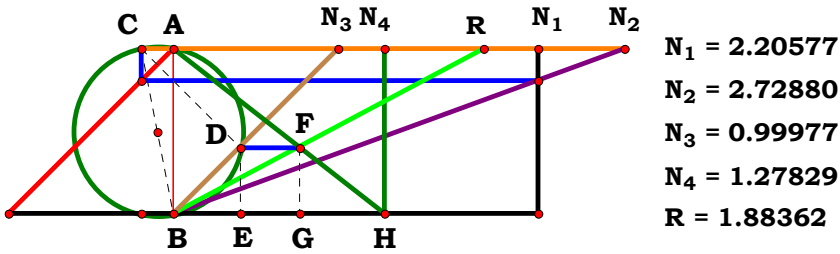
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{A \cdot N_u \cdot \left(C^2 + N_u^2\right)}{C \cdot \left[A \cdot N_u^2 + N_u \cdot (C + D) \cdot (A - B) - A \cdot C \cdot D\right]} = 2.338314 \qquad \text{Num} := \frac{A \cdot N_u \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[A \cdot N_u \cdot \left(C^2 + N_u^2\right)\right]^2}} \qquad \text{Den} := \frac{C \cdot \left[A \cdot N_u^2 + N_u \cdot (C + D) \cdot (A - B) - A \cdot C \cdot D\right]}{\sqrt{\left[C \cdot \left[A \cdot N_u^2 + N_u \cdot (C + D) \cdot (A - B) - A \cdot C \cdot D\right]\right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{A \cdot N_u \cdot \sqrt{C^2 \cdot \left[A \cdot N_u^2 + (C + D) \cdot (A - B) \cdot N_u - A \cdot C \cdot D\right]^2} \cdot \left(C^2 + N_u^2\right)}{C \cdot \left[A \cdot N_u^2 + (C + D) \cdot (A - B) \cdot N_u - A \cdot C \cdot D\right] \cdot \sqrt{A^2 \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.20577$ $N_2 := 2.72880$ $N_3 := .99977$
 $N_4 := 1.27829$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]}{D \cdot [A \cdot C^2 + C \cdot N_u \cdot (B - A)]} = 1.883604$$

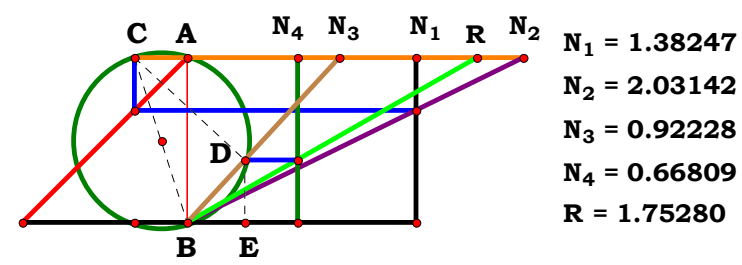
$$Num := \frac{N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]}{\sqrt{[N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]]^2}}$$

$$Den := \frac{D \cdot [A \cdot C^2 + C \cdot N_u \cdot (B - A)]}{\sqrt{[D \cdot [A \cdot C^2 + C \cdot N_u \cdot (B - A)]]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u^2 \cdot [A \cdot N_u + C \cdot (A - B)] \cdot \sqrt{D^2 \cdot [A \cdot C^2 - C \cdot N_u \cdot (A - B)]^2}}{D \cdot \sqrt{N_u^4 \cdot [A \cdot N_u + C \cdot (A - B)]^2 \cdot [A \cdot C^2 - C \cdot N_u \cdot (A - B)]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .92228$
 $N_4 := .66809$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{A \cdot N_u \cdot (C^2 + N_u^2)}{D \cdot [A \cdot C^2 - C \cdot N_u \cdot (A - B)]} = 1.752789$$

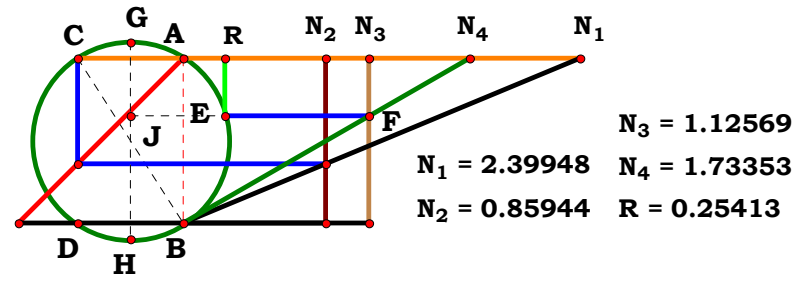
$$Num := \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot N_u \cdot (C^2 + N_u^2)]^2}}$$

$$Den := \frac{D \cdot [A \cdot C^2 - C \cdot N_u \cdot (A - B)]}{\sqrt{[D \cdot [A \cdot C^2 - C \cdot N_u \cdot (A - B)]]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A \cdot N_u \cdot \sqrt{D^2 \cdot [A \cdot C^2 - C \cdot N_u \cdot (A - B)]^2 \cdot (C^2 + N_u^2)}}{D \cdot [A \cdot C^2 - C \cdot N_u \cdot (A - B)] \cdot \sqrt{A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 2.39948$ $N_2 := .85944$ $N_3 := 1.12569$
 $N_4 := 1.73353$

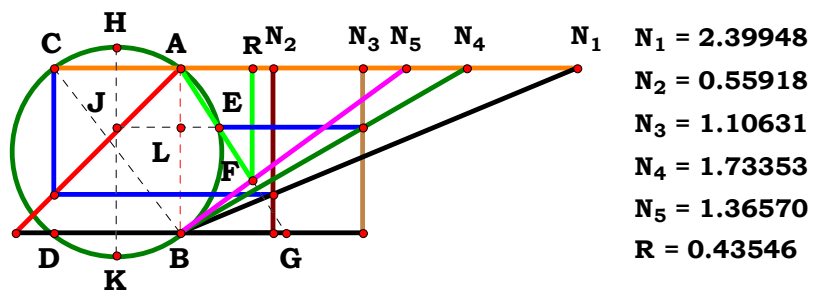
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{C}}}{2 \cdot \mathbf{B} \cdot \mathbf{C}} = 0.254132 \quad \text{Num} := \frac{\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{C}}}{\sqrt{\left[\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{C}}\right]^2}} \quad \text{Den} := \frac{2 \cdot \mathbf{B} \cdot \mathbf{C}}{\sqrt{(2 \cdot \mathbf{B} \cdot \mathbf{C})^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2} \cdot [\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{C}]}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{[\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{C}]^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 2.39948$ $N_2 := .55918$ $N_3 := 1.10631$

$$\mathbf{N}_4 := 1.73352 \quad \mathbf{N}_5 := 1.36570$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$

Descriptions.

$$\frac{\mathbf{N}_{\mathbf{u}} \cdot [\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})]}{\mathbf{E} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{A} - \mathbf{B}) + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D})} = \mathbf{0.435456}$$

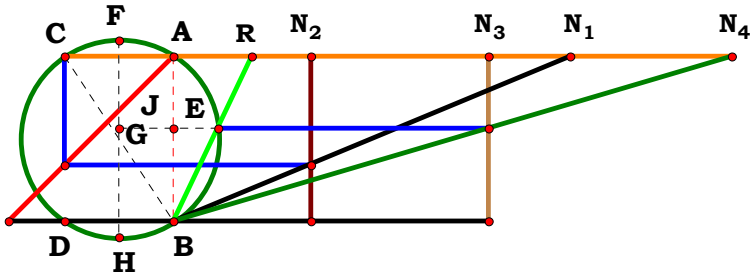
$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot [\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})]}{\sqrt{[\mathbf{N_u} \cdot [\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})]]^2}}$$

$$\text{Den} := \frac{\mathbf{E} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{A} - \mathbf{B}) + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D})}{\sqrt{\left[\mathbf{E} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{A} - \mathbf{B}) + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{E} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{A} - \mathbf{B}) + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \right]^2} \cdot \left[\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) \right]}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot \left[\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) \right]^2} \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{A} - \mathbf{B}) + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \right]} = 0$$



N₁ = 2.39948
N₂ = 0.83038
N₃ = 1.91023
N₄ = 3.38011
R = 0.47225

Unit. AB := 1 Given. N₁ := 2.39948 N₂ := .83038 N₃ := 1.91023
N₄ := 3.38011

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B)}{2 \cdot B \cdot D} = 0.472254$$

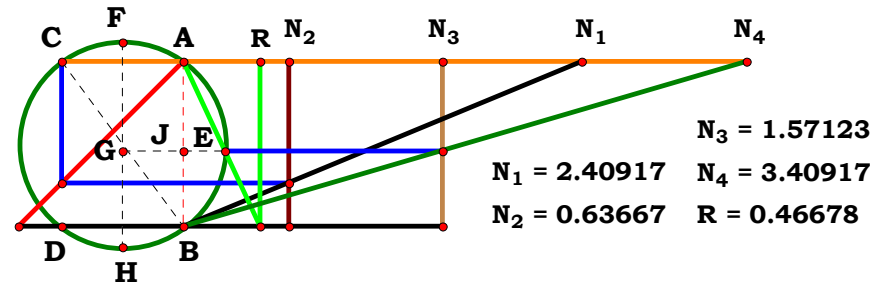
$$\text{Num} := \frac{\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B)}{\sqrt{\left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B)\right]^2}}$$

$$\text{Den} := \frac{2 \cdot B \cdot D}{\sqrt{(2 \cdot B \cdot D)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{B^2 \cdot D^2} \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B)\right]}{B \cdot D \cdot \sqrt{\left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B)\right]^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 2.40917$ $N_2 := .63667$ $N_3 := 1.57123$

$$\mathbf{N}_4 := 3.40917$$

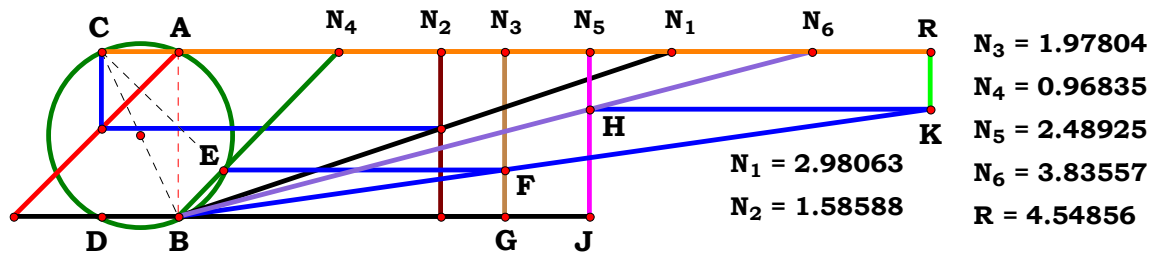
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})}{2 \cdot \mathbf{B} \cdot (\mathbf{C} - \mathbf{D})} = \mathbf{0.466776} \quad \mathbf{Num} := \frac{\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})}{\sqrt{[\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})]^2}} \quad \mathbf{Den} := \frac{2 \cdot \mathbf{B} \cdot (\mathbf{C} - \mathbf{D})}{\sqrt{[2 \cdot \mathbf{B} \cdot (\mathbf{C} - \mathbf{D})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot (\mathbf{C} - \mathbf{D})^2} \cdot [\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})]}{\mathbf{B} \cdot \sqrt{[\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})]^2 \cdot (\mathbf{C} - \mathbf{D})}} = 0$$



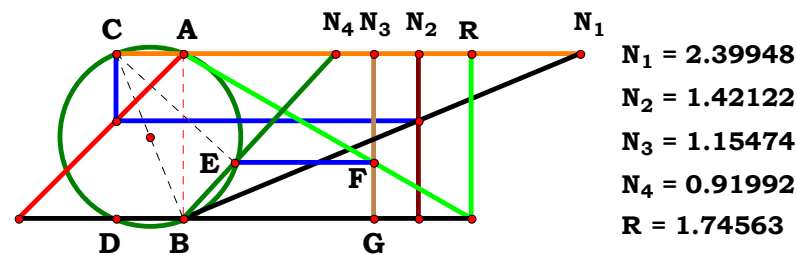
Unit. $AB := 1$ Given. $N_1 := 2.98063$ $N_2 := 1.58588$ $N_3 := 1.97804$
 $N_4 := .96835$ $N_5 := 2.48925$ $N_6 := 3.83557$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{B \cdot F \cdot N_u \cdot (D^2 + N_u^2)}{C \cdot D \cdot E \cdot (B \cdot D + A \cdot N_u - B \cdot N_u)} = 4.548568$$
$$Num := \frac{B \cdot F \cdot N_u \cdot (D^2 + N_u^2)}{\sqrt{[B \cdot F \cdot N_u \cdot (D^2 + N_u^2)]^2}}$$
$$Den := \frac{C \cdot D \cdot E \cdot (B \cdot D + A \cdot N_u - B \cdot N_u)}{\sqrt{[C \cdot D \cdot E \cdot (B \cdot D + A \cdot N_u - B \cdot N_u)]^2}}$$
$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{B \cdot F \cdot N_u \cdot (D^2 + N_u^2) \cdot \sqrt{C^2 \cdot D^2 \cdot E^2 \cdot (B \cdot D + A \cdot N_u - B \cdot N_u)^2}}{C \cdot D \cdot E \cdot (B \cdot D + A \cdot N_u - B \cdot N_u) \cdot \sqrt{B^2 \cdot F^2 \cdot N_u^2 \cdot (D^2 + N_u^2)^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := 1.15474$
 $N_4 := .91992$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

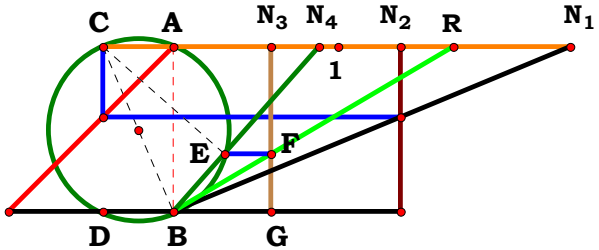
Descriptions.

$$\frac{\mathbf{B} \cdot (\mathbf{D}^2 + \mathbf{N}_u^2)}{\mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u} = 1.745632$$

$$\text{Num} := \frac{\mathbf{B} \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\mathbf{B} \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2)}} \quad \text{Den} := \frac{\mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{[\mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{B} - \mathbf{A}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 6.437Den = 1 L = 6.437937

$$\mathbf{L} - \frac{\mathbf{B} \cdot \sqrt{[\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{B})]^2 \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2)}}{\sqrt{\mathbf{B} \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2)} \cdot [\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{B})]} = \mathbf{0}$$



$N_1 = 2.39948$
 $N_2 = 1.37279$
 $N_3 = 0.59297$
 $N_4 = 0.88118$
 $R = 1.69095$

Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.37279$ $N_3 := .59297$

$N_4 := .88118$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{B \cdot N_u \cdot (D^2 + N_u^2)}{B \cdot C \cdot D^2 + C \cdot D \cdot N_u \cdot (A - B)} = 1.690955$$

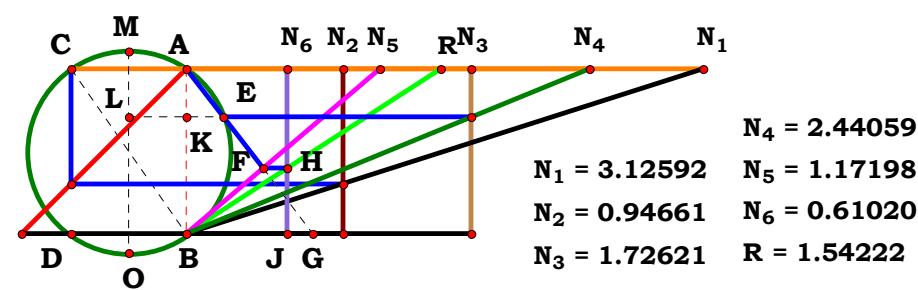
$$Num := \frac{B \cdot N_u \cdot (D^2 + N_u^2)}{\sqrt{[B \cdot N_u \cdot (D^2 + N_u^2)]^2}}$$

$$Den := \frac{B \cdot C \cdot D^2 + C \cdot D \cdot N_u \cdot (A - B)}{\sqrt{[B \cdot C \cdot D^2 + C \cdot D \cdot N_u \cdot (A - B)]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{B \cdot N_u \cdot (D^2 + N_u^2) \cdot \sqrt{[B \cdot C \cdot D^2 + C \cdot N_u \cdot (A - B) \cdot D]^2}}{[B \cdot C \cdot D^2 + C \cdot N_u \cdot (A - B) \cdot D] \cdot \sqrt{B^2 \cdot N_u^2 \cdot (D^2 + N_u^2)^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 3.12592$

$N_2 := .94661$

$N_3 := 1.72621$

$N_4 := 2.44059$

$N_5 := 1.17198$

$N_6 := .61020$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u \cdot \left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot E \cdot (A - B) + 2 \cdot B \cdot N_u \cdot (C - D) \right]}{E \cdot F \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B) \right]} = 1.542204$$

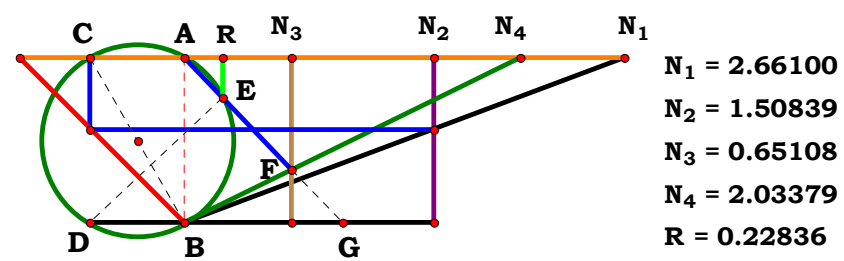
$$\text{Den} := \frac{E \cdot F \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B) \right]}{\sqrt{\left[E \cdot F \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B) \right] \right]^2}}$$

$$\text{Num} := \frac{N_u \cdot \left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot E \cdot (A - B) + 2 \cdot B \cdot N_u \cdot (C - D) \right]}{\sqrt{\left[N_u \cdot \left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot E \cdot (A - B) + 2 \cdot B \cdot N_u \cdot (C - D) \right] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot E \cdot (A - B) + 2 \cdot B \cdot N_u \cdot (C - D) \right] \cdot \sqrt{E^2 \cdot F^2 \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B) \right]^2}}{E \cdot F \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot (A - B) \right] \cdot \sqrt{N_u^2 \cdot \left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} + C \cdot E \cdot (A - B) + 2 \cdot B \cdot N_u \cdot (C - D) \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 1.50839$ $N_3 := .65108$
 $N_4 := 2.03379$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot [B \cdot (C - D) - A \cdot N_u]}{B \cdot [(C - D)^2 + N_u^2]} = 0.228362$$

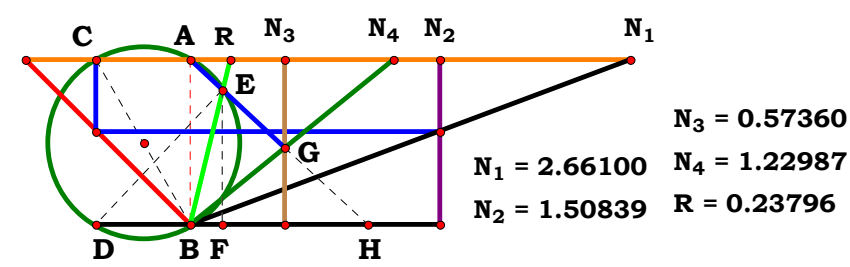
$$Num := \frac{N_u \cdot [B \cdot (C - D) - A \cdot N_u]}{\sqrt{[N_u \cdot [B \cdot (C - D) - A \cdot N_u]]^2}}$$

$$Den := \frac{B \cdot [(C - D)^2 + N_u^2]}{\sqrt{[B \cdot [(C - D)^2 + N_u^2]]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{B^2 \cdot (C^2 - 2 \cdot C \cdot D + D^2 + N_u^2)^2} \cdot (B \cdot C - B \cdot D - A \cdot N_u)}{B \cdot \sqrt{N_u^2 \cdot (B \cdot C - B \cdot D - A \cdot N_u)^2 \cdot (C^2 - 2 \cdot C \cdot D + D^2 + N_u^2)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 1.50839$ $N_3 := .57360$

$N_4 := 1.22987$

$N_u := 3$
 $A := \frac{N_u}{N_1}$
 $B := \frac{N_u}{N_2}$
 $C := \frac{N_u}{N_3}$
 $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{B \cdot (C - D) - A \cdot N_u}{A \cdot (C - D) + B \cdot N_u} = 0.237951$$

$$Num := \frac{B \cdot (C - D) - A \cdot N_u}{\sqrt{[B \cdot (C - D) - A \cdot N_u]^2}}$$

$$Den := \frac{A \cdot (C - D) + B \cdot N_u}{\sqrt{[A \cdot (C - D) + B \cdot N_u]^2}}$$

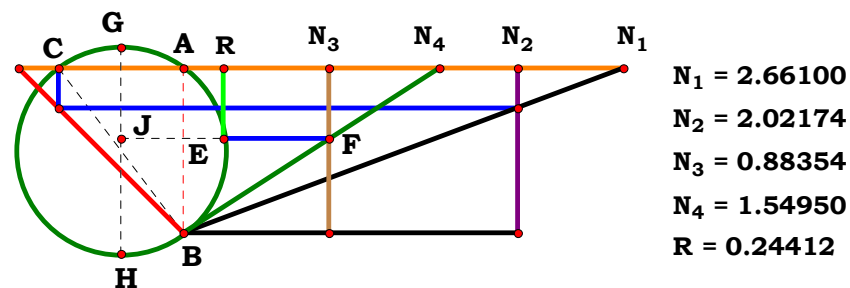
$$L := \frac{Num}{Den}$$

$Num = 1$

$Den = 1$

$L = 1$

$$L - \frac{[B \cdot (C - D) - A \cdot N_u] \cdot \sqrt{[B \cdot N_u + A \cdot (C - D)]^2}}{[B \cdot N_u + A \cdot (C - D)] \cdot \sqrt{[B \cdot (C - D) - A \cdot N_u]^2}} = 0$$

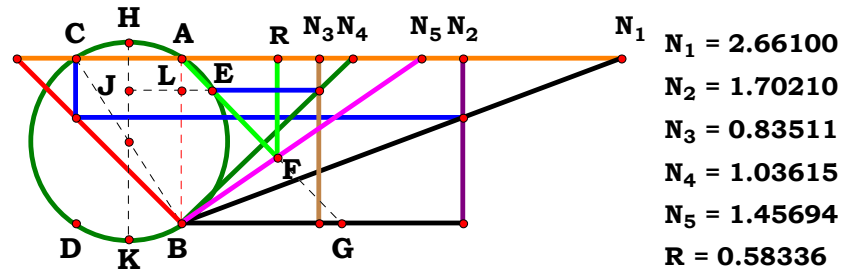


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

$$\frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}}{2 \cdot \mathbf{B} \cdot \mathbf{C}} = \mathbf{0.244121} \quad \mathbf{Num} := \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}}{\sqrt{\left[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}\right]^2}} \quad \mathbf{Den} := \frac{2 \cdot \mathbf{B} \cdot \mathbf{C}}{\sqrt{(2 \cdot \mathbf{B} \cdot \mathbf{C})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2} \cdot [\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}]}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}]^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 2.66100$ $N_2 := 1.70210$ $N_3 := .83511$
 $N_4 := 1.03615$ $N_5 := 1.45694$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$$\frac{N_u \cdot [A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)}]}{A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - 2 \cdot B \cdot N_u \cdot (C - D)} = 0.583357$$

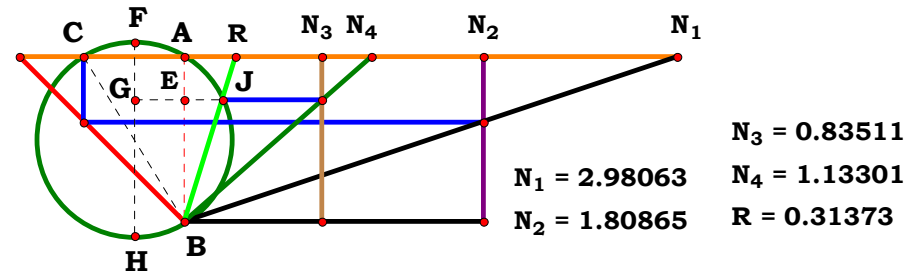
$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot [\mathbf{A} \cdot \mathbf{C} - \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})}]}{\sqrt{[\mathbf{N_u} \cdot [\mathbf{A} \cdot \mathbf{C} - \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})}]}^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} - \mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D})}{\sqrt{\left[\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} - \mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = -1 Den = -1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \right]^2} \cdot \left[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \right]}{\sqrt{\mathbf{N}_{\mathbf{u}}^2} \cdot \left[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \right]^2 \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \right]} = 0$$



Unit. AB := 1 Given. $N_1 := 2.98063$ $N_2 := 1.80865$ $N_3 := .83511$

$$\mathbf{N}_4 := 1.13301$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

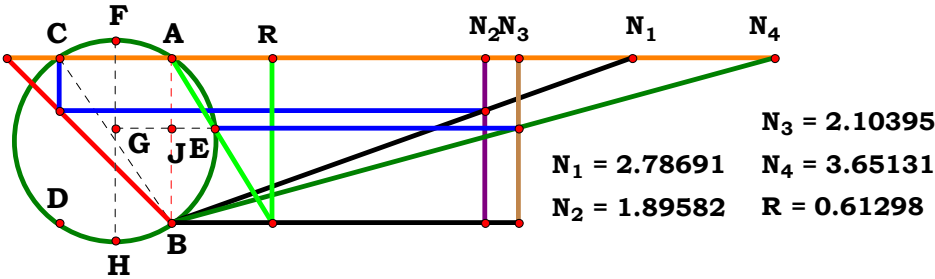
$$\frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}}{2 \cdot \mathbf{B} \cdot \mathbf{D}} = \mathbf{0.313738}$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}}{\sqrt{\left[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}\right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{B} \cdot \mathbf{D}}{\sqrt{(2 \cdot \mathbf{B} \cdot \mathbf{D})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{D}^2} \cdot [\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}]}{\mathbf{B} \cdot \mathbf{D} \cdot \sqrt{[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}]^2}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 2.78691 \quad N_2 := 1.89582 \quad N_3 := 2.10395$$

$$N_4 := 3.65131$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

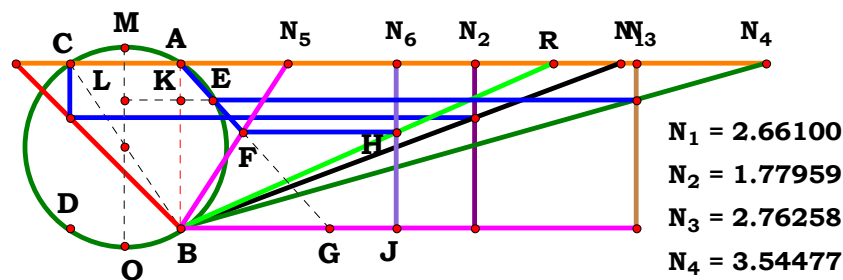
Descriptions.

$$\frac{\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - A \cdot C}{2 \cdot B \cdot (C - D)} = 0.612979 \qquad \text{Num} := \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - A \cdot C}{\sqrt{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - A \cdot C\right]^2}}$$

$$\text{Den} := \frac{2 \cdot B \cdot (C - D)}{\sqrt{\left[2 \cdot B \cdot (C - D)\right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{\sqrt{B^2 \cdot (C - D)^2} \cdot \left[\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - A \cdot C\right]}{B \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot D \cdot (C - D)} - A \cdot C\right]^2} \cdot (C - D)} = 0$$



$$\begin{array}{l} \text{Unit.} \quad \mathbf{AB} := 1 \quad \text{Given.} \quad \mathbf{N_1} := 2.66100 \quad \mathbf{N_2} := 1.77959 \quad \mathbf{N_3} := 2.76258 \\ \mathbf{N_4} := 3.54477 \quad \mathbf{N_5} := .65302 \quad \mathbf{N_6} := 1.30758 \\ \mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}} \end{array}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} + 2 \cdot \mathbf{B} \cdot \mathbf{N_u} \cdot (\mathbf{C} - \mathbf{D}) \right]}{\mathbf{E} \cdot \mathbf{F} \cdot \left[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \right]} = 2.257605$$

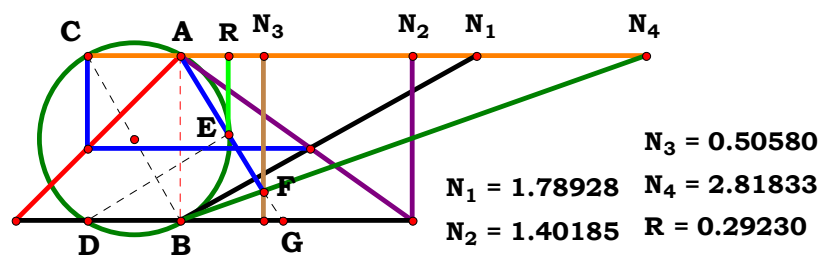
$$\mathbf{Den} := \frac{\mathbf{E} \cdot \mathbf{F} \cdot [\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}]}{\sqrt{[\mathbf{E} \cdot \mathbf{F} \cdot [\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}]]^2}}$$

$$\text{Num} := \frac{\mathbf{N_u} \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} + 2 \cdot \mathbf{B} \cdot \mathbf{N_u} \cdot (\mathbf{C} - \mathbf{D}) \right]}{\sqrt{\left[\mathbf{N_u} \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} + 2 \cdot \mathbf{B} \cdot \mathbf{N_u} \cdot (\mathbf{C} - \mathbf{D}) \right] \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot [\mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D})] \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{F}^2 \cdot [\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}]^2}}{\mathbf{E} \cdot \mathbf{F} \cdot [\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}] \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot [\mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D})]^2}} = 0$$



Unit. $AB := 1$ **Given.** $N_1 := 1.78926$ $N_2 := 1.40185$ $N_3 := .50580$
 $N_4 := 2.81833$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

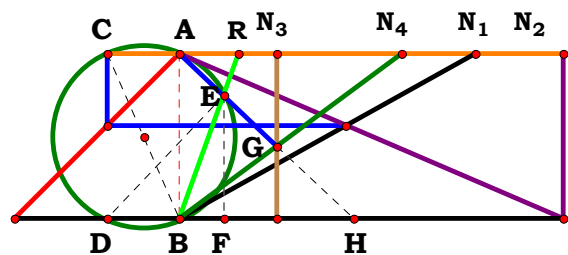
$$\frac{\mathbf{N_u} \cdot [(\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]}{(\mathbf{A} + \mathbf{B}) \cdot [(\mathbf{C} - \mathbf{D})^2 + \mathbf{N_u}^2]} = \mathbf{0.292301}$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot [(\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]}{\sqrt{[\mathbf{N_u} \cdot [(\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]]^2}}$$

$$\mathbf{Den} := \frac{(\mathbf{A} + \mathbf{B}) \cdot [(\mathbf{C} - \mathbf{D})^2 + \mathbf{N_u}^2]}{\sqrt{[(\mathbf{A} + \mathbf{B}) \cdot [(\mathbf{C} - \mathbf{D})^2 + \mathbf{N_u}^2]]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot [(\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] \cdot \sqrt{(\mathbf{A} + \mathbf{B})^2 \cdot [\mathbf{N}_{\mathbf{u}}^2 + (\mathbf{C} - \mathbf{D})^2]^2}}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot [(\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]^2 \cdot (\mathbf{A} + \mathbf{B}) \cdot [\mathbf{N}_{\mathbf{u}}^2 + (\mathbf{C} - \mathbf{D})^2]}} = 0$$



N₁ = 1.78928
N₂ = 2.32200
N₃ = 0.59297
N₄ = 1.34610
R = 0.36035

Unit. AB := 1 Given. $N_1 := 1.78929$ $N_2 := 2.32200$ $N_3 := .59297$

$$N_4 := 1.3461$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{(\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_u}{\mathbf{B} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B})} = 0.360351$$

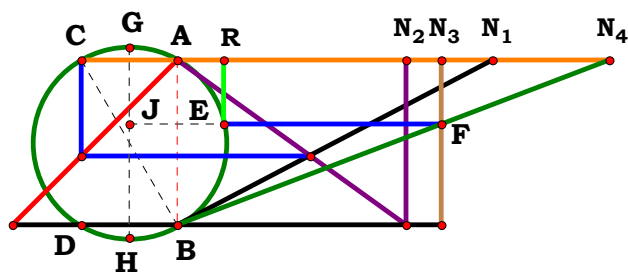
$$\mathbf{Num} := \frac{(\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}}{\sqrt{[(\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{B} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{B} \cdot (\mathbf{C} - \mathbf{D})]^2} \cdot [(\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]}{\sqrt{[(\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]^2} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{B} \cdot (\mathbf{C} - \mathbf{D})]} = \mathbf{0}$$



N₁ = 1.90551
N₂ = 1.38247
N₃ = 1.60029
N₄ = 2.61493
R = 0.27718

Unit. AB := 1 Given. $N_1 := 1.90551$ $N_2 := 1.38247$ $N_3 := 1.60029$
$$N_4 := 2.61493$$
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

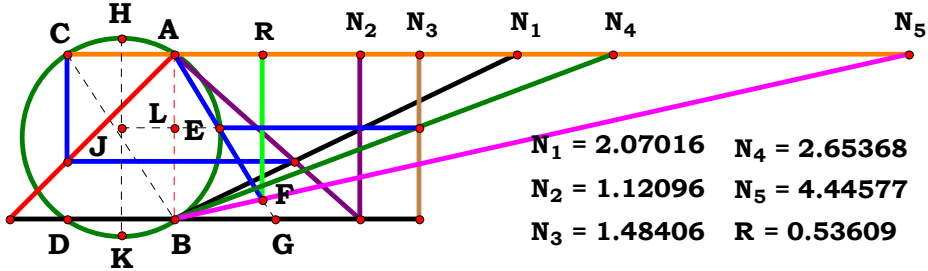
$$\frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}}{2 \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}} = \mathbf{0.277175}$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}}{\sqrt{\left[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}\right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}}{\sqrt{[2 \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\left[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C} \right] \cdot \sqrt{\mathbf{C}^2 \cdot (2 \cdot \mathbf{A} + 2 \cdot \mathbf{B})^2}}{\mathbf{C} \cdot \sqrt{\left[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C} \right]^2 \cdot (2 \cdot \mathbf{A} + 2 \cdot \mathbf{B})}} = 0$$



Unit. **AB** := 1 Given. **N₁** := 2.07016 **N₂** := 1.12096 **N₃** := 1.48406

N₄ := 2.65368 **N₅** := 4.44577

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$ **D** := $\frac{N_u}{N_4}$ **E** := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot \left[\sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 - B \cdot C \right]}{E \cdot \sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 + 2 \cdot N_u \cdot (C-D) \cdot (A+B) - B \cdot C \cdot E} = 0.536087$$

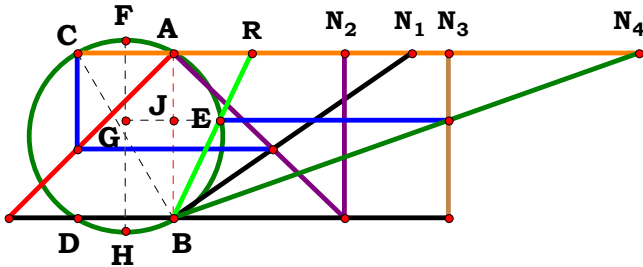
$$Den := \frac{E \cdot \sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 + 2 \cdot N_u \cdot (C-D) \cdot (A+B) - B \cdot C \cdot E}{\sqrt{\left[E \cdot \sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 + 2 \cdot N_u \cdot (C-D) \cdot (A+B) - B \cdot C \cdot E \right]^2}}$$

$$Num := \frac{N_u \cdot \left[\sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 - B \cdot C \right]}{\sqrt{\left[N_u \cdot \left[\sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 - B \cdot C \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 **Den** = 1 **L** = 1

$$L - \frac{N_u \cdot \sqrt{\left[E \cdot \sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 + 2 \cdot N_u \cdot (A+B) \cdot (C-D) - B \cdot C \cdot E \right]^2} \cdot \left[\sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 - B \cdot C \right]}{\sqrt{N_u^2 \cdot \left[\sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 - B \cdot C \right]^2} \cdot \left[E \cdot \sqrt{B^2 \cdot C^2 - 4 \cdot D^2 \cdot (A+B)^2} + 4 \cdot C \cdot D \cdot (A+B)^2 + 2 \cdot N_u \cdot (A+B) \cdot (C-D) - B \cdot C \cdot E \right]} = 0$$



N₁ = 1.44059
N₂ = 1.03379
N₃ = 1.66809
N₄ = 2.81833
R = 0.47329

Unit. AB := 1 Given. N₁ := 1.44059 N₂ := 1.03379 N₃ := 1.66809

N₄ := 2.81833

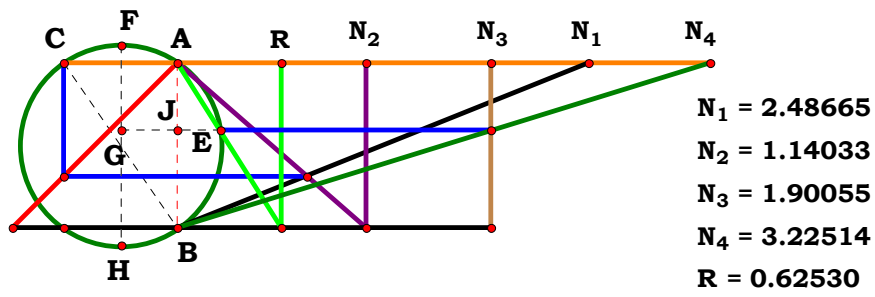
N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{\mathbf{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - B \cdot C}}}{2 \cdot (A + B) \cdot D} = \mathbf{0.473287} \qquad \mathbf{Num} := \frac{\sqrt{\mathbf{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - B \cdot C}}}{\sqrt{\left[\sqrt{\mathbf{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - B \cdot C}}\right]^2}} \qquad \mathbf{Den} := \frac{2 \cdot (A + B) \cdot D}{\sqrt{\left[2 \cdot (A + B) \cdot D\right]^2}} \qquad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\left[\sqrt{\mathbf{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - B \cdot C}}\right] \cdot \sqrt{\mathbf{D^2 \cdot (2 \cdot A + 2 \cdot B)^2}}}{\mathbf{D} \cdot \sqrt{\left[\sqrt{\mathbf{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - B \cdot C}}\right]^2} \cdot (2 \cdot A + 2 \cdot B)} = \mathbf{0}$$



Unit.

$AB := 1$

Given.

$N_1 := 2.48665$

$N_2 := 1.14033$

$N_3 := 1.90055$

$N_4 := 3.22514$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C}{2 \cdot (A + B) \cdot (C - D)} = 0.625301$$

$$\text{Num} := \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C}{\sqrt{\left[\left[\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C\right] \cdot C\right]^2}}$$

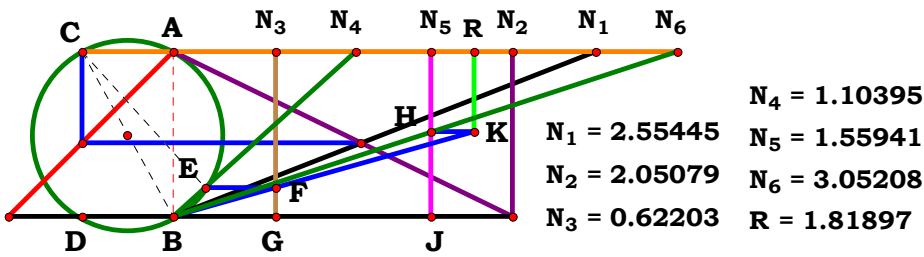
$$\text{Den} := \frac{2 \cdot (A + B) \cdot (C - D)}{\sqrt{[2 \cdot (A + B) \cdot (C - D)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 0.633517$$

$$\text{Den} = 1$$

$$L = 0.633517$$

$$L - \frac{\sqrt{(2 \cdot A + 2 \cdot B)^2 \cdot (C - D)^2} \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C\right]}{\sqrt{C^2 \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C\right]^2} \cdot (2 \cdot A + 2 \cdot B) \cdot (C - D)} = 0$$



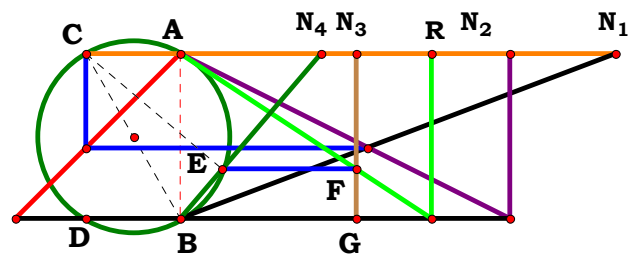
Unit. $AB := 1$ Given. $N_1 := 2.55445$ $N_2 := 2.05079$ $N_3 := .62203$
 $N_4 := 1.10395$ $N_5 := 1.55941$ $N_6 := 3.05208$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{F \cdot N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{C \cdot D \cdot E \cdot [D \cdot (A + B) - B \cdot N_u]} = 1.818978$$
$$Num := \frac{F \cdot N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{\sqrt{[F \cdot N_u \cdot (D^2 + N_u^2) \cdot (A + B)]^2}}$$
$$Den := \frac{C \cdot D \cdot E \cdot [D \cdot (A + B) - B \cdot N_u]}{\sqrt{[C \cdot D \cdot E \cdot [D \cdot (A + B) - B \cdot N_u]]^2}}$$
$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{F \cdot N_u \cdot (D^2 + N_u^2) \cdot (A + B) \cdot \sqrt{C^2 \cdot D^2 \cdot E^2 \cdot [D \cdot (A + B) - B \cdot N_u]^2}}{C \cdot D \cdot E \cdot [D \cdot (A + B) - B \cdot N_u] \cdot \sqrt{F^2 \cdot N_u^2 \cdot (D^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



N₁ = 2.63194
N₂ = 1.99268
N₃ = 1.06757
N₄ = 0.85212
R = 1.52159

Unit. $AB := 1$ **Given.** $N_1 := 2.63194$ $N_2 := 1.99268$ $N_3 := 1.06757$
 $N_4 := .85212$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\left(\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2\right) \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{C} \cdot \left[\mathbf{B} \cdot \mathbf{D} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})\right]} = 1.521591$$

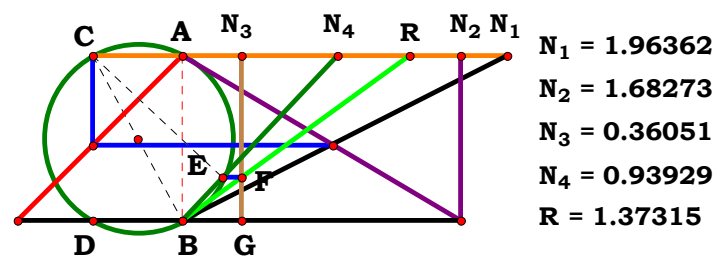
$$\mathbf{Num} := \frac{\left(\mathbf{D}^2 + \mathbf{N}_u^2\right) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{\left[\left(\mathbf{D}^2 + \mathbf{N}_u^2\right) \cdot (\mathbf{A} + \mathbf{B})\right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{C} \cdot [\mathbf{B} \cdot \mathbf{D} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})]}{\sqrt{[\mathbf{C} \cdot [\mathbf{B} \cdot \mathbf{D} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})]]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{C}^2 \cdot [\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{B} \cdot \mathbf{D}]^2 \cdot (\mathbf{D}^2 + \mathbf{N}_u^2) \cdot (\mathbf{A} + \mathbf{B})}}{\mathbf{C} \cdot [\mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{B} \cdot \mathbf{D}] \cdot \sqrt{(\mathbf{D}^2 + \mathbf{N}_u^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2}} = 0$$



Unit. $AB := 1$ **Given.** $N_1 := 1.96362$ $N_2 := 1.68273$ $N_3 := .36051$
 $N_4 := .93929$

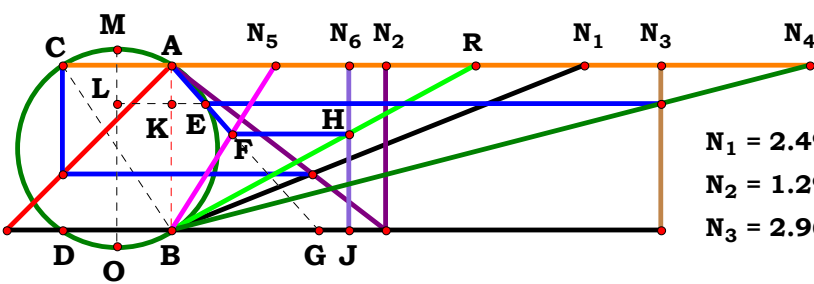
$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot (\mathbf{D}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{C} \cdot \mathbf{D} \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]} = 1.373144 \quad \text{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{D}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{N_u} \cdot (\mathbf{D}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})]^2}} \quad \text{Den} := \frac{\mathbf{C} \cdot \mathbf{D} \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]}{\sqrt{[\mathbf{C} \cdot \mathbf{D} \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B}) \cdot \sqrt{\mathbf{C}^2 \cdot \mathbf{D}^2 \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]^2}}{\mathbf{C} \cdot \mathbf{D} \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{D}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2}} = 0$$



$$\begin{aligned} N_1 &= 2.49634 & N_5 &= 0.62958 \\ N_2 &= 1.29530 & N_6 &= 1.07618 \\ N_3 &= 2.96599 & R &= 1.83953 \end{aligned}$$

$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= 2.49634 & N_2 &:= 1.29530 & N_3 &:= 2.96599 \\ N_4 &:= 3.86440 & N_5 &:= .62958 & N_6 &:= 1.07618 \\ N_u &:= 3 & A &:= \frac{N_u}{N_1} & B &:= \frac{N_u}{N_2} & C &:= \frac{N_u}{N_3} & D &:= \frac{N_u}{N_4} & E &:= \frac{N_u}{N_5} & F &:= \frac{N_u}{N_6} \end{aligned}$$

Descriptions.

$$\frac{N_u \cdot \left[E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} + \left[2 \cdot N_u \cdot (C - D) \cdot (A + B) - B \cdot C \cdot E \right] \right]}{E \cdot F \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C \right]} = 1.839537$$

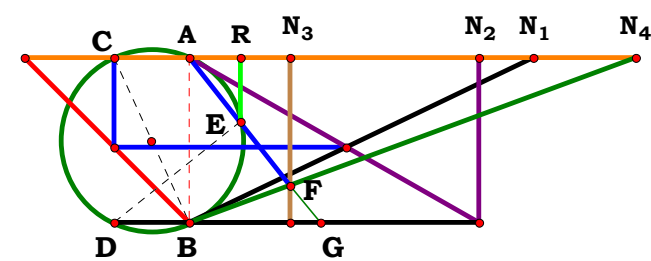
$$\text{Den} := \frac{E \cdot F \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C \right]}{\sqrt{\left[E \cdot F \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C \right] \right]^2}}$$

$$\text{Num} := \frac{N_u \cdot \left[E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} + \left[2 \cdot N_u \cdot (C - D) \cdot (A + B) - B \cdot C \cdot E \right] \right]}{\sqrt{\left[N_u \cdot \left[E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} + \left[2 \cdot N_u \cdot (C - D) \cdot (A + B) - B \cdot C \cdot E \right] \right] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{E^2 \cdot F^2 \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C \right]^2} \cdot \left[E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} + 2 \cdot N_u \cdot (A + B) \cdot (C - D) - B \cdot C \cdot E \right]}{E \cdot F \cdot \sqrt{N_u^2 \cdot \left[E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} + 2 \cdot N_u \cdot (A + B) \cdot (C - D) - B \cdot C \cdot E \right]^2} \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - B \cdot C \right]} = 0$$



N₁ = 2.07985
N₂ = 1.75053
N₃ = 0.61234
N₄ = 2.70210
R = 0.31057

Unit. AB := 1 Given. N₁ := 2.07985 N₂ := 1.75053 N₃ := .61234
N₄ := 2.70210

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot \left[(C - D) \cdot (A + B) - A \cdot N_u \right]}{(A + B) \cdot \left[(C - D)^2 + N_u^2 \right]} = 0.310572$$

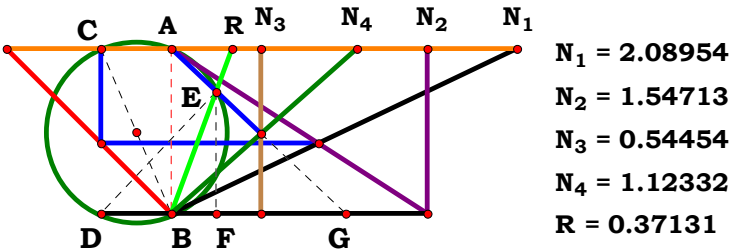
$$Num := \frac{N_u \cdot \left[(C - D) \cdot (A + B) - A \cdot N_u \right]}{\sqrt{\left[N_u \cdot \left[(C - D) \cdot (A + B) - A \cdot N_u \right] \right]^2}}$$

$$Den := \frac{(A + B) \cdot \left[(C - D)^2 + N_u^2 \right]}{\sqrt{\left[(A + B) \cdot \left[(C - D)^2 + N_u^2 \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot \left[(A + B) \cdot (C - D) - A \cdot N_u \right] \cdot \sqrt{(A + B)^2 \cdot \left[N_u^2 + (C - D)^2 \right]^2}}{\sqrt{N_u^2 \cdot \left[(A + B) \cdot (C - D) - A \cdot N_u \right]^2 \cdot (A + B) \cdot \left[N_u^2 + (C - D)^2 \right]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.08954$ $N_2 := 1.54713$ $N_3 := .54454$
 $N_4 := 1.12332$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{(C - D) \cdot (A + B) - A \cdot N_u}{A \cdot (C - D) + N_u \cdot (A + B)} = 0.371306$$

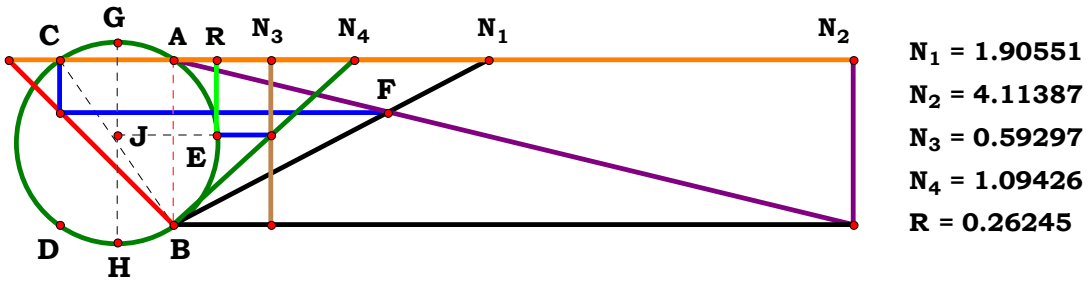
$$Num := \frac{(C - D) \cdot (A + B) - A \cdot N_u}{\sqrt{\left[(C - D) \cdot (A + B) - A \cdot N_u\right]^2}}$$

$$Den := \frac{A \cdot (C - D) + N_u \cdot (A + B)}{\sqrt{\left[A \cdot (C - D) + N_u \cdot (A + B)\right]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{\sqrt{\left[N_u \cdot (A + B) + A \cdot (C - D)\right]^2} \cdot \left[(A + B) \cdot (C - D) - A \cdot N_u\right]}{\sqrt{\left[(A + B) \cdot (C - D) - A \cdot N_u\right]^2} \cdot \left[N_u \cdot (A + B) + A \cdot (C - D)\right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.90551$ $N_2 := 4.11387$ $N_3 := .59297$
 $N_4 := 1.09426$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - A \cdot C}{2 \cdot (A + B) \cdot C} = 0.262447$$

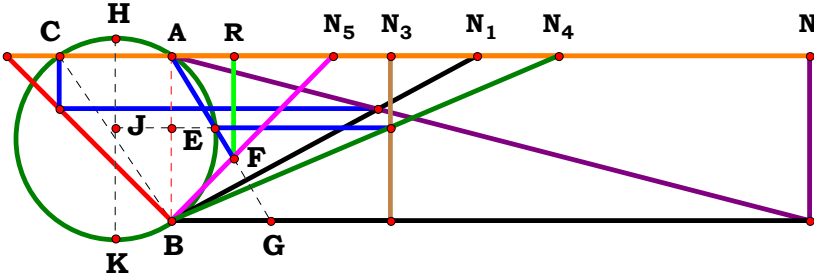
$$Num := \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - A \cdot C}{\sqrt{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - A \cdot C\right]^2}}$$

$$Den := \frac{2 \cdot (A + B) \cdot C}{\sqrt{[2 \cdot (A + B) \cdot C]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - A \cdot C\right] \cdot \sqrt{C^2 \cdot (2 \cdot A + 2 \cdot B)^2}}{C \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - A \cdot C\right]^2} \cdot (2 \cdot A + 2 \cdot B)} = 0$$



$N_1 = 1.84739$
 $N_2 = 3.86203$
 $N_3 = 1.32909$
 $N_4 = 2.34373$
 $N_5 = 0.97826$
 $R = 0.37362$

Unit. $AB := 1$ Given. $N_1 := 1.84739$ $N_2 := 3.86203$ $N_3 := 1.32909$
 $N_4 := 2.34373$ $N_5 := .97826$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot \left[A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} \right]}{A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - 2 \cdot N_u \cdot (C - D) \cdot (A + B)} = 0.37362$$

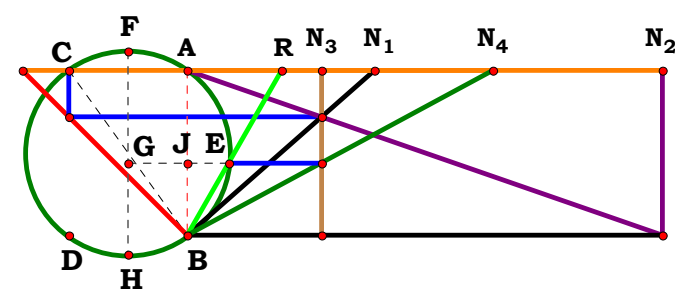
$$Num := \frac{N_u \cdot \left[A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} \right]}{\sqrt{\left[N_u \cdot \left[A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} \right] \right]^2}}$$

$$Den := \frac{A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - 2 \cdot N_u \cdot (C - D) \cdot (A + B)}{\sqrt{\left[A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - 2 \cdot N_u \cdot (C - D) \cdot (A + B) \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = -1 Den = -1 L = 1

$$L - \frac{N_u \cdot \left[A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} \right] \cdot \sqrt{\left[A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - 2 \cdot N_u \cdot (C - D) \cdot (A + B) \right]^2}}{\sqrt{N_u^2 \cdot \left[A \cdot C - \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} \right]^2 \cdot \left[A \cdot C \cdot E - E \cdot \sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D)} - 2 \cdot N_u \cdot (C - D) \cdot (A + B) \right]}} = 0$$



N₁ = 1.13064
N₂ = 2.87408
N₃ = 0.81574
N₄ = 1.84976
R = 0.57544

Unit. AB := 1 Given. N₁ := 1.13064 N₂ := 2.87408 N₃ := .81574
N₄ := 1.84976

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - A \cdot C}}{2 \cdot (A + B) \cdot D} = 0.575437$$

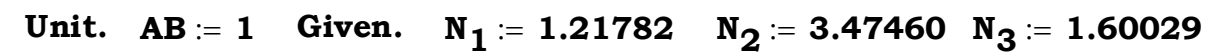
$$\text{Num} := \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - A \cdot C}}{\sqrt{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - A \cdot C}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot (A + B) \cdot D}{\sqrt{[2 \cdot (A + B) \cdot D]^2}}$$

$$\text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

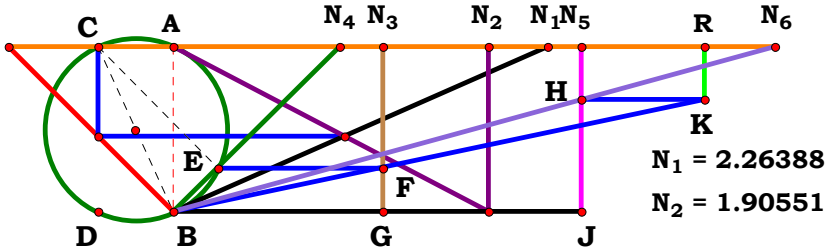
$$\text{L} - \frac{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - A \cdot C}\right] \cdot \sqrt{D^2 \cdot (2 \cdot A + 2 \cdot B)^2}}{D \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot D \cdot (A + B)^2 \cdot (C - D) - A \cdot C}\right]^2 \cdot (2 \cdot A + 2 \cdot B)}} = 0$$



$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{(2 \cdot \mathbf{A} + 2 \cdot \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})^2} \cdot [\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}]}{\sqrt{[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{A} \cdot \mathbf{C}]^2 \cdot (2 \cdot \mathbf{A} + 2 \cdot \mathbf{B}) \cdot (\mathbf{C} - \mathbf{D})}} = \mathbf{0}$$



N₃ = 1.27097
N₄ = 1.00709
N₅ = 2.46987
N₆ = 3.64185
R = 3.21676

Unit.

AB := 1

Given.

N₁ := 2.26388

N₂ := 1.90551

N₃ := 1.27097

N₄ := 1.00709

N₅ := 2.46987

N₆ := 3.64185

N_u := 3

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

E := $\frac{N_u}{N_5}$

F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{F \cdot N_u \cdot \left(D^2 + N_u^2\right) \cdot (A + B)}{C \cdot D \cdot E \cdot \left[D \cdot (A + B) - A \cdot N_u\right]} = 3.216733$$

$$\text{Num} := \frac{F \cdot N_u \cdot \left(D^2 + N_u^2\right) \cdot (A + B)}{\sqrt{\left[F \cdot N_u \cdot \left(D^2 + N_u^2\right) \cdot (A + B)\right]^2}}$$

$$\text{Den} := \frac{C \cdot D \cdot E \cdot \left[D \cdot (A + B) - A \cdot N_u\right]}{\sqrt{\left[C \cdot D \cdot E \cdot \left[D \cdot (A + B) - A \cdot N_u\right]\right]^2}}$$

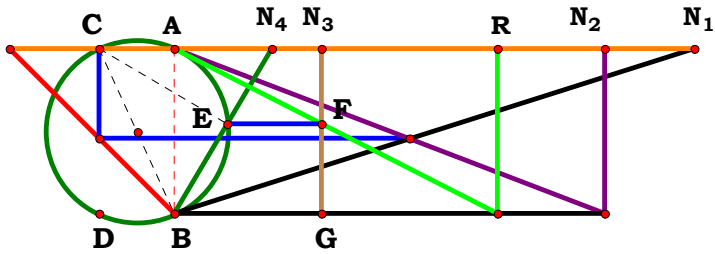
$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1

Den = 1

L = 1

$$L - \frac{F \cdot N_u \cdot \left(D^2 + N_u^2\right) \cdot (A + B) \cdot \sqrt{C^2 \cdot D^2 \cdot E^2 \cdot \left[D \cdot (A + B) - A \cdot N_u\right]^2}}{C \cdot D \cdot E \cdot \left[D \cdot (A + B) - A \cdot N_u\right] \cdot \sqrt{F^2 \cdot N_u^2 \cdot \left(D^2 + N_u^2\right)^2 \cdot (A + B)^2}} = 0$$



N₁ = 3.14529
N₂ = 2.60288
N₃ = 0.89323
N₄ = 0.59060
R = 1.95505

Unit. AB := 1 Given. N₁ := 3.14529 N₂ := 2.60288 N₃ := .89323
N₄ := .59060

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

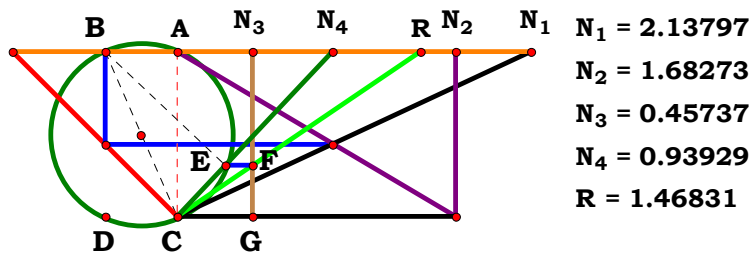
$$\frac{\left(D^2+N_u^2\right)\cdot\left(A+B\right)}{A\cdot C\cdot D+C\cdot N_u\cdot\left(A+B\right)}=1.955066$$

$$\text{Num}:=\frac{\left(D^2+N_u^2\right)\cdot\left(A+B\right)}{\sqrt{\left[\left(D^2+N_u^2\right)\cdot\left(A+B\right)\right]^2}}$$

$$\text{Den}:=\frac{A\cdot C\cdot D+C\cdot N_u\cdot\left(A+B\right)}{\sqrt{\left[A\cdot C\cdot D+C\cdot N_u\cdot\left(A+B\right)\right]^2}}\qquad L:=\frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L-\frac{\left(D^2+N_u^2\right)\cdot\left(A+B\right)\cdot\sqrt{\left[C\cdot N_u\cdot\left(A+B\right)+A\cdot C\cdot D\right]^2}}{\left[C\cdot N_u\cdot\left(A+B\right)+A\cdot C\cdot D\right]\cdot\sqrt{\left(D^2+N_u^2\right)^2\cdot\left(A+B\right)^2}}=0$$



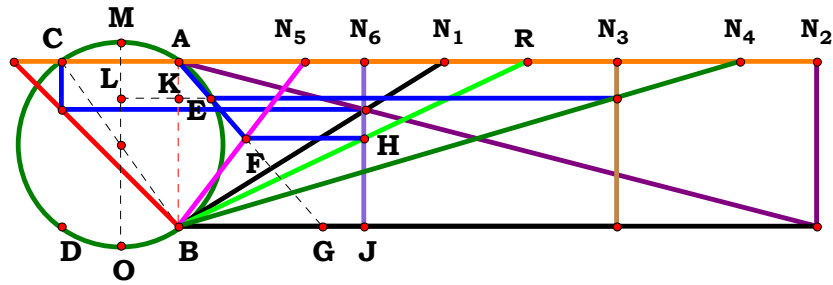
Unit. $AB := 1$ Given. $N_1 := 2.13797$ $N_2 := 1.68273$ $N_3 := .45737$
 $N_4 := .93929$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{C \cdot D \cdot [D \cdot (A + B) - A \cdot N_u]} = 1.468313 \qquad \text{Num} := \frac{N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (D^2 + N_u^2) \cdot (A + B)]^2}} \qquad \text{Den} := \frac{C \cdot D \cdot [D \cdot (A + B) - A \cdot N_u]}{\sqrt{[C \cdot D \cdot [D \cdot (A + B) - A \cdot N_u]]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

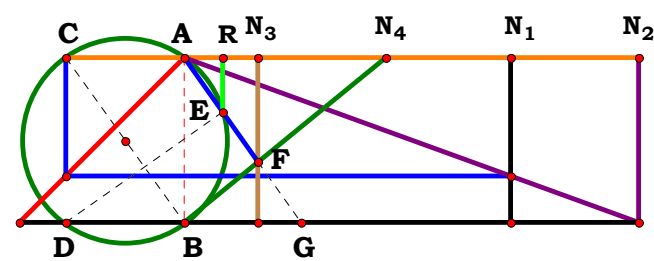
$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{N_u \cdot (D^2 + N_u^2) \cdot (A + B) \cdot \sqrt{C^2 \cdot D^2 \cdot [D \cdot (A + B) - A \cdot N_u]^2}}{C \cdot D \cdot [D \cdot (A + B) - A \cdot N_u] \cdot \sqrt{N_u^2 \cdot (D^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$


$$\begin{array}{l} \text{Unit.} \quad \mathbf{AB := 1} \quad \text{Given.} \quad \mathbf{N_1 := 1.60525} \quad \mathbf{N_2 := 3.86203} \quad \mathbf{N_3 := 2.65604} \\ \mathbf{N_4 := 3.39948} \quad \mathbf{N_5 := .76518} \quad \mathbf{N_6 := 1.12355} \\ \mathbf{N_u := 3} \quad \mathbf{A := \frac{N_u}{N_1}} \quad \mathbf{B := \frac{N_u}{N_2}} \quad \mathbf{C := \frac{N_u}{N_3}} \quad \mathbf{D := \frac{N_u}{N_4}} \quad \mathbf{E := \frac{N_u}{N_5}} \quad \mathbf{F := \frac{N_u}{N_6}} \end{array}$$
$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot \left[\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} - \mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - 2 \cdot \mathbf{N_u} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right]}{\sqrt{\left[\mathbf{N_u} \cdot \left[\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} - \mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - 2 \cdot \mathbf{N_u} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right] \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{F}^2 \cdot [\mathbf{A} \cdot \mathbf{C} - \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})}]^2} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} - \mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B})]}{\mathbf{E} \cdot \mathbf{F} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} - \mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})} - 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B})]^2} \cdot [\mathbf{A} \cdot \mathbf{C} - \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} - \mathbf{D})}]} = 0$$



N₁ = 1.97331
N₂ = 2.74817
N₃ = 0.44768
N₄ = 1.22018
R = 0.23205

Unit. AB := 1 Given. N₁ := 1.97331 N₂ := 2.74817 N₃ := .44768
N₄ := 1.22018
N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot [A \cdot (C - D) - B \cdot N_u]}{A \cdot [(C - D)^2 + N_u^2]} = 0.232053$$

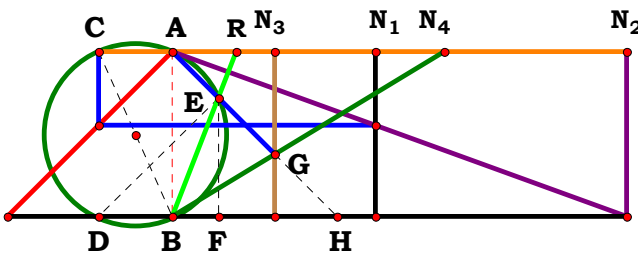
$$Num := \frac{N_u \cdot [A \cdot (C - D) - B \cdot N_u]}{\sqrt{[N_u \cdot [A \cdot (C - D) - B \cdot N_u]]^2}}$$

$$Den := \frac{A \cdot [(C - D)^2 + N_u^2]}{\sqrt{[A \cdot [(C - D)^2 + N_u^2]]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot [A \cdot (C - D) - B \cdot N_u] \cdot \sqrt{A^2 \cdot [N_u^2 + (C - D)^2]^2}}{A \cdot [N_u^2 + (C - D)^2] \cdot \sqrt{N_u^2 \cdot [A \cdot (C - D) - B \cdot N_u]^2}} = 0$$



N₁ = 1.22750
N₂ = 2.74817
N₃ = 0.62203
N₄ = 1.64635
R = 0.38264

Unit. AB := 1 Given. N₁ := 1.22750 N₂ := 2.74817 N₃ := .62203
N₄ := 1.64635

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$\frac{A \cdot (C - D) - B \cdot N_u}{B \cdot (C - D) + A \cdot N_u} = 0.382629$

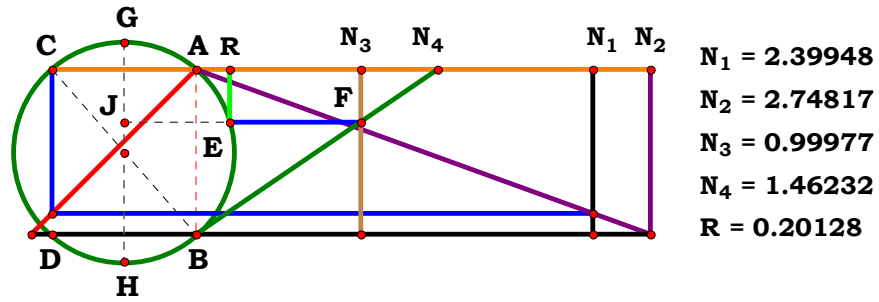
Num := $\frac{A \cdot (C - D) - B \cdot N_u}{\sqrt{[A \cdot (C - D) - B \cdot N_u]^2}}$

Den := $\frac{B \cdot (C - D) + A \cdot N_u}{\sqrt{[B \cdot (C - D) + A \cdot N_u]^2}}$

L := $\frac{Num}{Den}$

Num = 1 Den = 1 L = 1

$L - \frac{[A \cdot (C - D) - B \cdot N_u] \cdot \sqrt{[A \cdot N_u + B \cdot (C - D)]^2}}{[A \cdot N_u + B \cdot (C - D)] \cdot \sqrt{[A \cdot (C - D) - B \cdot N_u]^2}} = 0$



Unit. AB := 1 Given. $N_1 := 2.39948$ $N_2 := 2.74817$ $N_3 := .99977$
 $N_4 := 1.46232$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

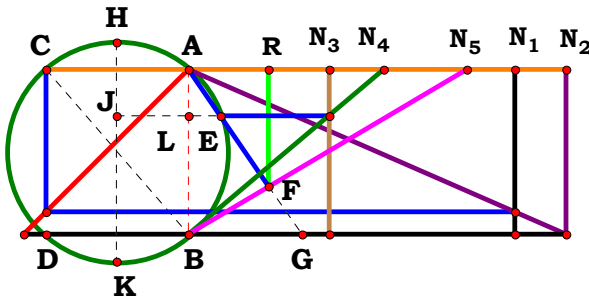
$$\frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}}{2 \cdot \mathbf{A} \cdot \mathbf{C}} = \mathbf{0.201283}$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}}{\sqrt{\left[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C} \right]^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot C}{\sqrt{(2 \cdot A \cdot C)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2} \cdot [\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}]}{\mathbf{A} \cdot \mathbf{C} \cdot \sqrt{[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}]^2}} = 0$$



N₁ = 1.97331
 N₂ = 2.28325
 N₃ = 0.85448
 N₄ = 1.18144
 N₅ = 1.68533
 R = 0.48761

Unit. AB := 1 Given. N₁ := 1.97331 N₂ := 2.28325 N₃ := .85448

N₄ := 1.18144 N₅ := 1.68533

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]}{E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} + 2 \cdot N_u \cdot A \cdot (C - D) - B \cdot C \cdot E} = 0.487604$$

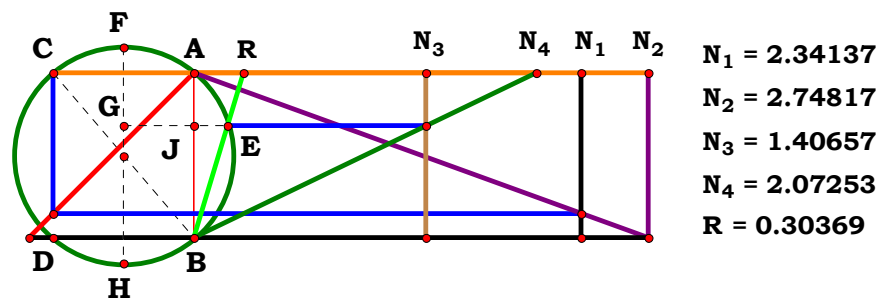
$$Num := \frac{N_u \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]}{\sqrt{\left[N_u \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right] \right]^2}}$$

$$Den := \frac{E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} + 2 \cdot N_u \cdot A \cdot (C - D) - B \cdot C \cdot E}{\sqrt{\left[E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} + 2 \cdot N_u \cdot A \cdot (C - D) - B \cdot C \cdot E \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot \sqrt{\left[E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \cdot E + 2 \cdot A \cdot N_u \cdot (C - D) \right]^2} \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]}{\sqrt{N_u^2 \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]^2} \cdot \left[E \cdot \sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \cdot E + 2 \cdot A \cdot N_u \cdot (C - D) \right]} = 0$$



Unit. AB := 1 Given. $N_1 := 2.34137$ $N_2 := 2.74817$ $N_3 := 1.40657$

$$N_4 := 2.07253$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

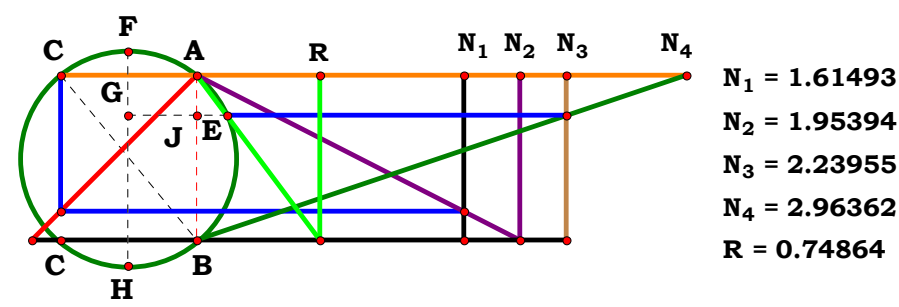
$$\frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}}{2 \cdot \mathbf{A} \cdot \mathbf{D}} = 0.303689$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}}{\sqrt{\left[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C} \right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{A} \cdot \mathbf{D}}{\sqrt{(2 \cdot \mathbf{A} \cdot \mathbf{D})^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2} \cdot [\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}]}{\mathbf{A} \cdot \mathbf{D} \cdot \sqrt{[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}]^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 1.61493$

$N_2 := 1.95394$

$N_3 := 2.23955$

$N_4 := 2.96362$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C}{2 \cdot A \cdot (C - D)} = 0.748639$$

$$Num := \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C}{\sqrt{\left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot (C - D)}{\sqrt{\left[2 \cdot A \cdot (C - D)\right]^2}}$$

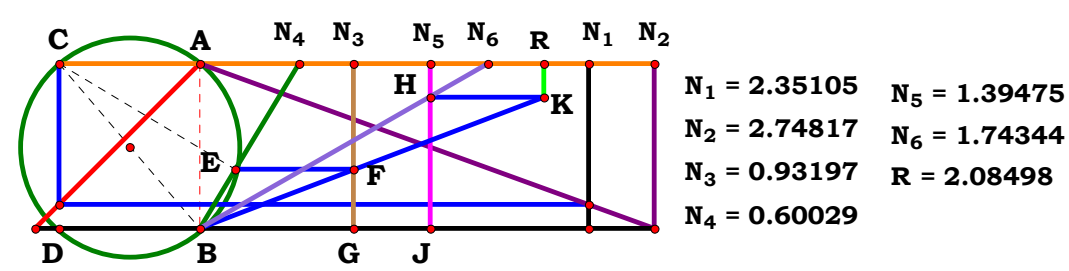
$$L := \frac{Num}{Den}$$

Num = 1

Den = 1

L = 1

$$L - \frac{\sqrt{A^2 \cdot (C - D)^2} \cdot \left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C\right]}{A \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C\right]^2} \cdot (C - D)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.35105$ $N_2 := 2.74817$ $N_3 := .93197$

$N_4 := .60029$ $N_5 := 1.39475$ $N_6 := 1.74344$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{A \cdot F \cdot N_u \cdot (D^2 + N_u^2)}{C \cdot D \cdot E \cdot (A \cdot D - B \cdot N_u)} = 2.084969$$

$$Num := \frac{A \cdot F \cdot N_u \cdot (D^2 + N_u^2)}{\sqrt{[A \cdot F \cdot N_u \cdot (D^2 + N_u^2)]^2}}$$

$$Den := \frac{C \cdot D \cdot E \cdot (A \cdot D - B \cdot N_u)}{\sqrt{[C \cdot D \cdot E \cdot (A \cdot D - B \cdot N_u)]^2}}$$

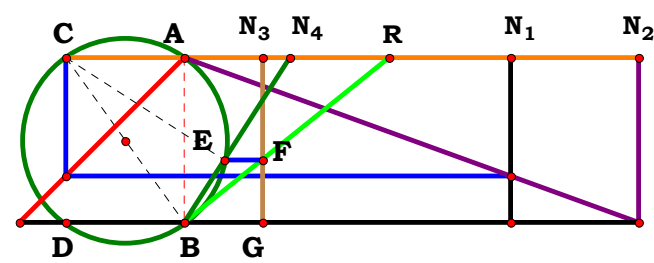
$$L := \frac{Num}{Den}$$

$Num = 1$

$Den = 1$

$L = 1$

$$L - \frac{A \cdot F \cdot N_u \cdot (D^2 + N_u^2) \cdot \sqrt{C^2 \cdot D^2 \cdot E^2 \cdot (A \cdot D - B \cdot N_u)^2}}{C \cdot D \cdot E \cdot (A \cdot D - B \cdot N_u) \cdot \sqrt{A^2 \cdot F^2 \cdot N_u^2 \cdot (D^2 + N_u^2)^2}} = 0$$



$N_1 = 1.97331$
 $N_2 = 2.74817$
 $N_3 = 0.47674$
 $N_4 = 0.63903$
 $R = 1.24074$

Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .47674$
 $N_4 := .63903$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

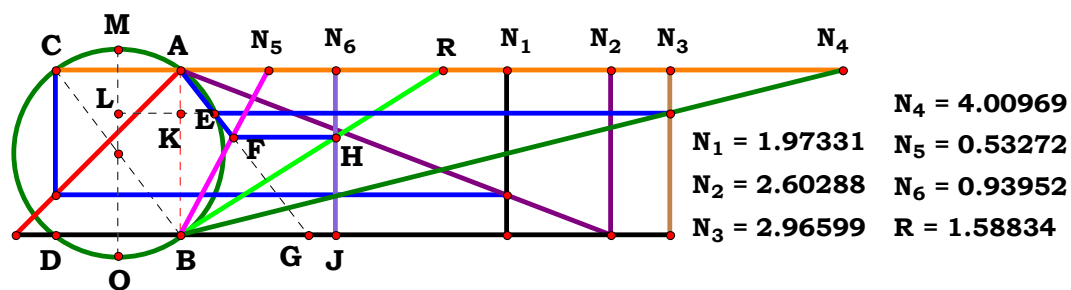
Descriptions.

$$\frac{A \cdot N_u \cdot (D^2 + N_u^2)}{C \cdot D \cdot (A \cdot D - B \cdot N_u)} = 1.240736$$
$$\text{Num} := \frac{A \cdot N_u \cdot (D^2 + N_u^2)}{\sqrt{[A \cdot N_u \cdot (D^2 + N_u^2)]^2}}$$
$$\text{Den} := \frac{C \cdot D \cdot (A \cdot D - B \cdot N_u)}{\sqrt{[C \cdot D \cdot (A \cdot D - B \cdot N_u)]^2}}$$
$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{A \cdot N_u \cdot (D^2 + N_u^2) \cdot \sqrt{C^2 \cdot D^2 \cdot (A \cdot D - B \cdot N_u)^2}}{C \cdot D \cdot (A \cdot D - B \cdot N_u) \cdot \sqrt{A^2 \cdot N_u^2 \cdot (D^2 + N_u^2)^2}} = 0$$

4RST2B5R9



Unit. AB := 1 Given. $N_1 := 1.97331$ $N_2 := 2.60288$ $N_3 := 2.96599$

$N_4 := 4.00969$ $N_5 := .53272$ $N_6 := .93952$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{\mathbf{N_u} \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + 2 \cdot \mathbf{N_u} \cdot \mathbf{A} \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} \right]}{\mathbf{E} \cdot \mathbf{F} \cdot \left[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C} \right]} = 1.588344$$

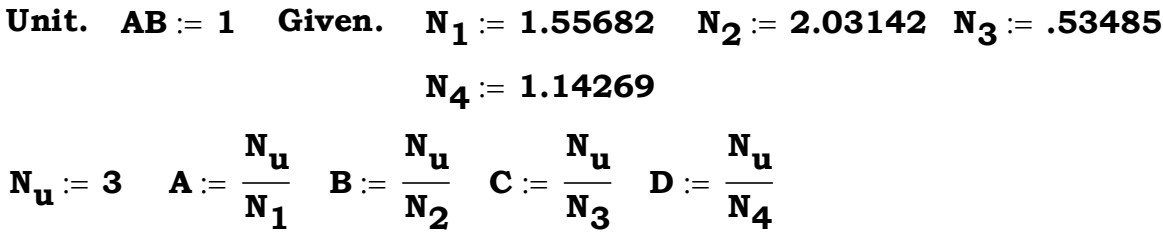
$$\text{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A} \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} \right]}{\sqrt{\left[\mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} + 2 \cdot \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A} \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} \right] \right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{E} \cdot \mathbf{F} \cdot [\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}]}{\sqrt{[\mathbf{E} \cdot \mathbf{F} \cdot [\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C}]]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

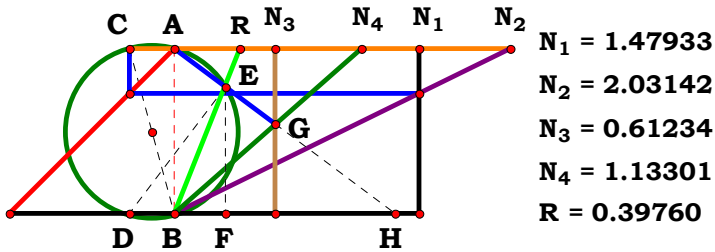
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} + 2 \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \right] \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{F}^2 \cdot \left[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C} \right]^2}}{\mathbf{E} \cdot \mathbf{F} \cdot \left[\sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C} \right] \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot \left[\mathbf{E} \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} + 2 \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C} - \mathbf{D}) \right]^2}} = 0$$



Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot [\mathbf{A} \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \cdot \sqrt{\mathbf{A}^2 \cdot [\mathbf{N}_{\mathbf{u}}^2 + (\mathbf{C} - \mathbf{D})^2]^2}}{\mathbf{A} \cdot [\mathbf{N}_{\mathbf{u}}^2 + (\mathbf{C} - \mathbf{D})^2] \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot [\mathbf{A} \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.47933$ $N_2 := 2.03142$ $N_3 := .61234$
 $N_4 := 1.13301$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

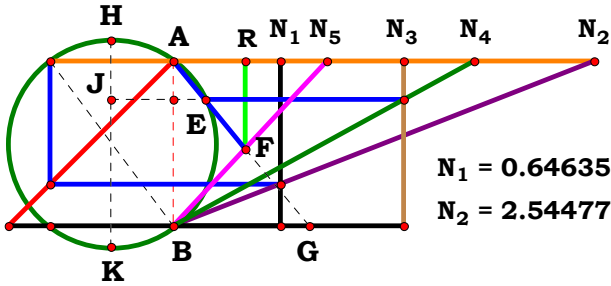
$$\frac{A \cdot (C - D) - N_u \cdot (A - B)}{(C - D) \cdot (A - B) + A \cdot N_u} = 0.397604$$

$$Num := \frac{A \cdot (C - D) - N_u \cdot (A - B)}{\sqrt{[A \cdot (C - D) - N_u \cdot (A - B)]^2}}$$

$$Den := \frac{(C - D) \cdot (A - B) + A \cdot N_u}{\sqrt{[(C - D) \cdot (A - B) + A \cdot N_u]^2}} \qquad L := \frac{Num}{Den}$$

$Num = 1 \qquad Den = 1 \qquad L = 1$

$$L - \frac{[A \cdot (C - D) - N_u \cdot (A - B)] \cdot \sqrt{[A \cdot N_u + (A - B) \cdot (C - D)]^2}}{[A \cdot N_u + (A - B) \cdot (C - D)] \cdot \sqrt{[A \cdot (C - D) - N_u \cdot (A - B)]^2}} = 0$$



$N_3 = 1.39689$
 $N_4 = 1.82070$
 $N_5 = 0.92984$
 $R = 0.43548$

Unit. $AB := 1$ Given. $N_1 := .64635$ $N_2 := 2.54477$ $N_3 := 1.39689$

$N_4 := 1.82070$ $N_5 := .92984$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

Descriptions.

$$\frac{N_u \cdot \left[A \cdot C - \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]}{C \cdot E \cdot (A - B) - 2 \cdot A \cdot N_u \cdot (C - D) - E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)}} = 0.435482$$

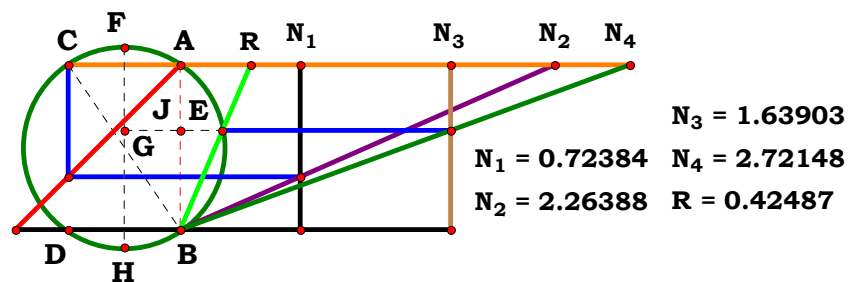
$$\text{Den} := \frac{C \cdot E \cdot (A - B) - 2 \cdot A \cdot N_u \cdot (C - D) - E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)}}{\sqrt{\left[C \cdot E \cdot (A - B) - 2 \cdot A \cdot N_u \cdot (C - D) - E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} \right]^2}}$$

$$\text{Num} := \frac{N_u \cdot \left[A \cdot C - \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]}{\sqrt{\left[N_u \cdot \left[A \cdot C - \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = -1$ $\text{Den} = -1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{\left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - C \cdot E \cdot (A - B) + 2 \cdot A \cdot N_u \cdot (C - D) \right]^2} \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - A \cdot C + B \cdot C \right]}{\sqrt{N_u^2 \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - A \cdot C + B \cdot C \right]^2} \cdot \left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - C \cdot E \cdot (A - B) + 2 \cdot A \cdot N_u \cdot (C - D) \right]} = 0$$



Unit. AB := 1 Given. $N_1 := .72384$ $N_2 := 2.26388$ $N_3 := 1.63903$

$$N_4 := 2.72148$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})}{2 \cdot \mathbf{A} \cdot \mathbf{D}} = 0.424872$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})}{\sqrt{\left[\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{D} \cdot (\mathbf{C} - \mathbf{D})} - \mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) \right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{A} \cdot \mathbf{D}}{\sqrt{(2 \cdot \mathbf{A} \cdot \mathbf{D})^2}}$$

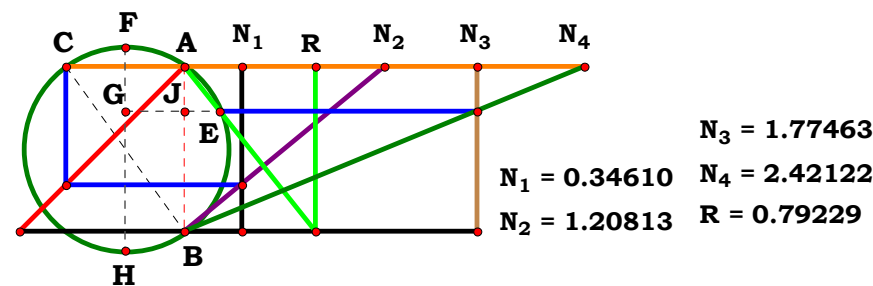
$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{A^2 \cdot D^2} \cdot [\sqrt{C^2 \cdot (A-B)^2 + 4 \cdot A^2 \cdot D \cdot (C-D)} - C \cdot (A-B)]}{A \cdot D \cdot \sqrt{[\sqrt{C^2 \cdot (A-B)^2 + 4 \cdot A^2 \cdot D \cdot (C-D)} - C \cdot (A-B)]^2}} = 0$$



Descriptions.



Unit. $AB := 1$ Given. $N_1 := .34610$ $N_2 := 1.20813$ $N_3 := 1.77463$

$N_4 := 2.42122$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$$\frac{\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - C \cdot (A - B)}{2 \cdot A \cdot (C - D)} = 0.792287$$

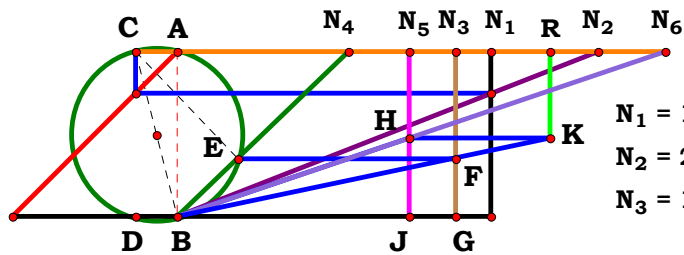
$$Num := \frac{\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - C \cdot (A - B)}{\sqrt{\left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - C \cdot (A - B)\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot (C - D)}{\sqrt{\left[2 \cdot A \cdot (C - D)\right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{A^2 \cdot (C - D)^2} \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - C \cdot (A - B)\right]}{A \cdot \sqrt{\left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - C \cdot (A - B)\right]^2} \cdot (C - D)} = 0$$



N₄ = 1.03615
N₅ = 1.40444
N₆ = 2.95416
N₁ = 1.89582
N₂ = 2.54477
N₃ = 1.68746
R = 2.26093

Unit. AB := 1

Given.

N₁ := 1.89582

N₂ := 2.54477

N₃ := 1.68746

N₄ := 1.03615

N₅ := 1.40444

N₆ := 2.95416

N_u := 3

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

E := $\frac{N_u}{N_5}$

F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{A \cdot F \cdot N_u \cdot (D^2 + N_u^2)}{C \cdot D \cdot E \cdot [A \cdot D - N_u \cdot (A - B)]} = 2.260935$$

Num :=
$$\frac{A \cdot F \cdot N_u \cdot (D^2 + N_u^2)}{\sqrt{[A \cdot F \cdot N_u \cdot (D^2 + N_u^2)]^2}}$$

Den :=
$$\frac{C \cdot D \cdot E \cdot [A \cdot D - N_u \cdot (A - B)]}{\sqrt{[C \cdot D \cdot E \cdot [A \cdot D - N_u \cdot (A - B)]]^2}}$$

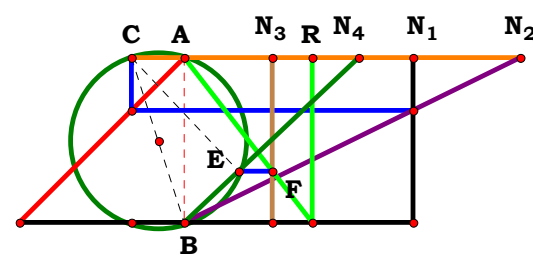
L :=
$$\frac{\text{Num}}{\text{Den}}$$

Num = 1

Den = 1

L = 1

L -
$$\frac{A \cdot F \cdot N_u \cdot (D^2 + N_u^2) \cdot \sqrt{C^2 \cdot D^2 \cdot E^2 \cdot [A \cdot D - N_u \cdot (A - B)]^2}}{C \cdot D \cdot E \cdot [A \cdot D - N_u \cdot (A - B)] \cdot \sqrt{A^2 \cdot F^2 \cdot N_u^2 \cdot (D^2 + N_u^2)^2}} = 0$$



N₁ = 1.38247
N₂ = 2.03142
N₃ = 0.53485
N₄ = 1.05552
R = 0.77912

Unit. AB := 1 Given. N₁ := 1.38247 N₂ := 2.03142 N₃ := .53485

N₄ := 1.05552

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{A \cdot (D^2 + N_u^2)}{C \cdot [D \cdot (A - B) + A \cdot N_u]} = 0.779113$$

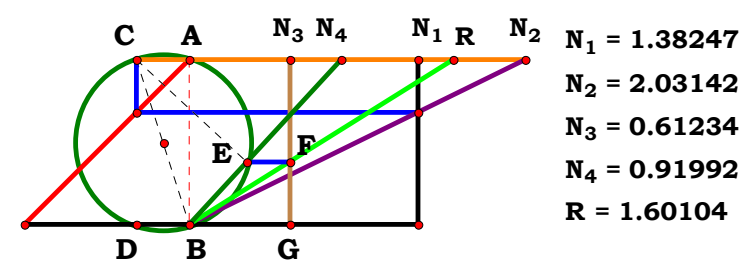
$$Num := \frac{A \cdot (D^2 + N_u^2)}{\sqrt{[A \cdot (D^2 + N_u^2)]^2}}$$

$$Den := \frac{C \cdot [D \cdot (A - B) + A \cdot N_u]}{\sqrt{[C \cdot [D \cdot (A - B) + A \cdot N_u]]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot (D^2 + N_u^2) \cdot \sqrt{C^2 \cdot [A \cdot N_u + D \cdot (A - B)]^2}}{C \cdot [A \cdot N_u + D \cdot (A - B)] \cdot \sqrt{A^2 \cdot (D^2 + N_u^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .61234$
 $N_4 := .91992$

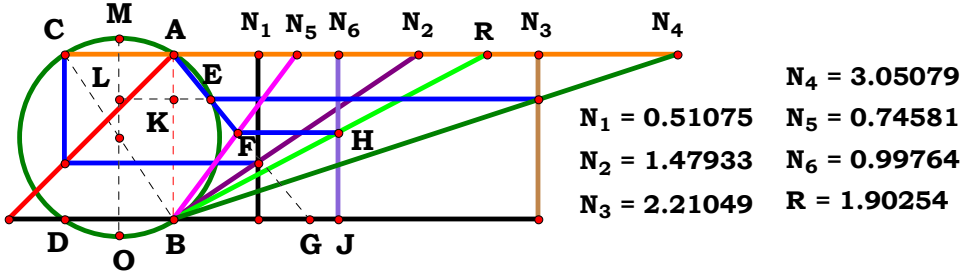
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{A \cdot N_u \cdot (D^2 + N_u^2)}{C \cdot D \cdot [A \cdot D - N_u \cdot (A - B)]} = 1.601038 \quad \text{Num} := \frac{A \cdot N_u \cdot (D^2 + N_u^2)}{\sqrt{[A \cdot N_u \cdot (D^2 + N_u^2)]^2}} \quad \text{Den} := \frac{C \cdot D \cdot [A \cdot D - N_u \cdot (A - B)]}{\sqrt{[C \cdot D \cdot [A \cdot D - N_u \cdot (A - B)]]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$

$$L - \frac{A \cdot N_u \cdot (D^2 + N_u^2) \cdot \sqrt{C^2 \cdot D^2 \cdot [A \cdot D - N_u \cdot (A - B)]^2}}{C \cdot D \cdot [A \cdot D - N_u \cdot (A - B)] \cdot \sqrt{A^2 \cdot N_u^2 \cdot (D^2 + N_u^2)^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := .51075$

$N_2 := 1.47933$

$N_3 := 2.21049$

$N_4 := 3.05079$

$N_5 := .74581$

$N_6 := .99764$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u \cdot \left[A \cdot C \cdot E - E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \cdot E - 2 \cdot A \cdot N_u \cdot (C - D) \right]}{E \cdot F \cdot \left[A \cdot C - \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]} = 1.902555$$

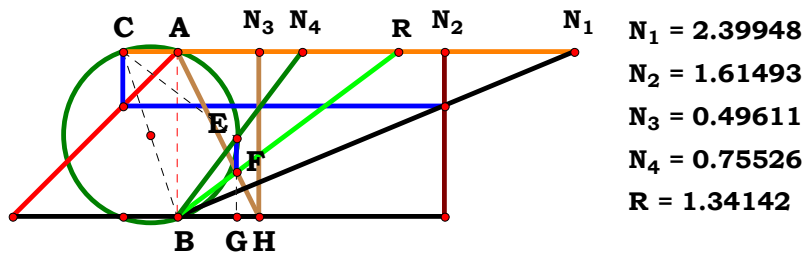
$$Num := \frac{N_u \cdot \left[A \cdot C \cdot E - E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \cdot E - 2 \cdot A \cdot N_u \cdot (C - D) \right]}{\sqrt{\left[N_u \cdot \left[A \cdot C \cdot E - E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \cdot E - 2 \cdot A \cdot N_u \cdot (C - D) \right] \right]^2}}$$

$$Den := \frac{E \cdot F \cdot \left[A \cdot C - \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right]}{\sqrt{\left[E \cdot F \cdot \left[A \cdot C - \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - B \cdot C \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = -1 \quad Den = -1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{E^2 \cdot F^2 \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - A \cdot C + B \cdot C \right]^2} \cdot \left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - A \cdot C \cdot E + B \cdot C \cdot E + 2 \cdot A \cdot N_u \cdot (C - D) \right]}{E \cdot F \cdot \sqrt{N_u^2 \cdot \left[E \cdot \sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - A \cdot C \cdot E + B \cdot C \cdot E + 2 \cdot A \cdot N_u \cdot (C - D) \right]^2} \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + 4 \cdot A^2 \cdot D \cdot (C - D)} - A \cdot C + B \cdot C \right]} = 0$$



Descriptions.

$$\frac{N_u \cdot [B \cdot D + N_u \cdot (A - B)]}{B \cdot N_u^2 + N_u \cdot C \cdot (B - A) + B \cdot D \cdot (D - C)} = 1.341417 \quad \text{Num} := \frac{N_u \cdot [B \cdot D + N_u \cdot (A - B)]}{\sqrt{[N_u \cdot [B \cdot D + N_u \cdot (A - B)]]^2}}$$

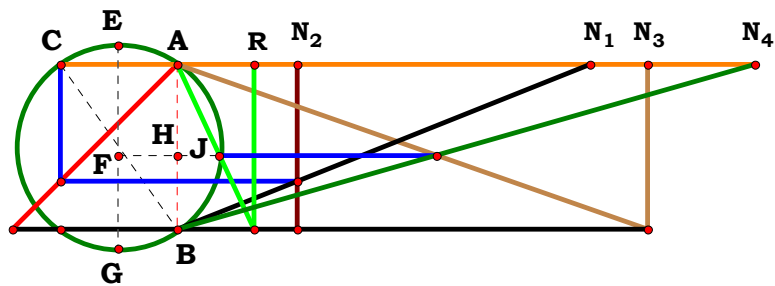
Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot [B \cdot D + N_u \cdot (A - B)] \cdot \sqrt{[B \cdot N_u^2 + N_u \cdot C \cdot (B - A) + B \cdot D \cdot (D - C)]^2}}{\sqrt{N_u^2 \cdot [B \cdot D + N_u \cdot (A - B)]^2 \cdot [B \cdot N_u^2 + N_u \cdot C \cdot (B - A) + B \cdot D \cdot (D - C)]}} = 0$$

Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.61493$ $N_3 := 0.49611$
 $N_4 := .75526$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

$$\text{Den} := \frac{B \cdot N_u^2 + N_u \cdot C \cdot (B - A) + B \cdot D \cdot (D - C)}{\sqrt{[B \cdot N_u^2 + N_u \cdot C \cdot (B - A) + B \cdot D \cdot (D - C)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$



N₁ = 2.49634
N₂ = 0.72384
N₃ = 2.84976
N₄ = 3.49634
R = 0.46480

Unit. AB := 1 Given. N₁ := 2.49634 N₂ := .72384 N₃ := 2.84976
N₄ := 3.49634

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

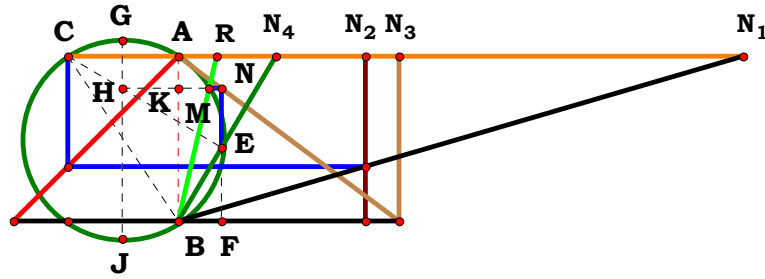
$$\frac{(C + D) \cdot (A - B) + \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}}{2 \cdot B \cdot C} = 0.464804$$

Num :=
$$\frac{(C + D) \cdot (A - B) + \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}}{\sqrt{\left[(C + D) \cdot (A - B) + \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}\right]^2}}$$

Den :=
$$\frac{2 \cdot B \cdot C}{\sqrt{(2 \cdot B \cdot C)^2}}$$
 L :=
$$\frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

L -
$$\frac{\left[(C + D) \cdot (A - B) + \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}\right] \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{\left[(C + D) \cdot (A - B) + \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}\right]^2}} = 0$$



$N_1 = 3.41649$
 $N_2 = 1.13064$
 $N_3 = 1.33877$
 $N_4 = 0.59060$
 $R = 0.23145$

Unit. $AB := 1$ Given. $N_1 := 3.41649$ $N_2 := 1.13064$ $N_3 := 1.33877$
 $N_4 := .59060$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\left(D^2 + N_u^2\right) \cdot (B - A) - \sqrt{\left(D^2 + N_u^2\right)^2 \cdot (A - B)^2 - 4 \cdot C^2 \cdot \left[B \cdot D + N_u \cdot (A - B)\right]^2 + 4 \cdot B \cdot C \cdot \left(D^2 + N_u^2\right) \cdot \left(B \cdot D + A \cdot N_u - B \cdot N_u\right)}}{2 \cdot \left(B \cdot C \cdot D - B \cdot N_u^2 - B \cdot D^2 + A \cdot C \cdot N_u - B \cdot C \cdot N_u\right)} = 0.23145$$

$$\text{Num} := \frac{\left(D^2 + N_u^2\right) \cdot (B - A) - \sqrt{\left(D^2 + N_u^2\right)^2 \cdot (A - B)^2 - 4 \cdot C^2 \cdot \left[B \cdot D + N_u \cdot (A - B)\right]^2 + 4 \cdot B \cdot C \cdot \left(D^2 + N_u^2\right) \cdot \left(B \cdot D + A \cdot N_u - B \cdot N_u\right)}}{\sqrt{\left[\left(D^2 + N_u^2\right) \cdot (B - A) - \sqrt{\left(D^2 + N_u^2\right)^2 \cdot (A - B)^2 - 4 \cdot C^2 \cdot \left[B \cdot D + N_u \cdot (A - B)\right]^2 + 4 \cdot B \cdot C \cdot \left(D^2 + N_u^2\right) \cdot \left(B \cdot D + A \cdot N_u - B \cdot N_u\right)}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot \left(B \cdot C \cdot D - B \cdot N_u^2 - B \cdot D^2 + A \cdot C \cdot N_u - B \cdot C \cdot N_u\right)}{\sqrt{\left[2 \cdot \left(B \cdot C \cdot D - B \cdot N_u^2 - B \cdot D^2 + A \cdot C \cdot N_u - B \cdot C \cdot N_u\right)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Num = -1 Den = -1 L = 1

$$L - \frac{\sqrt{\left(2 \cdot B \cdot D^2 + 2 \cdot B \cdot N_u^2 - 2 \cdot B \cdot C \cdot D - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right)^2 \cdot \left[\left(D^2 + N_u^2\right) \cdot (A - B) + \sqrt{\left(D^2 + N_u^2\right)^2 \cdot (A - B)^2 - 4 \cdot C^2 \cdot \left[B \cdot D + N_u \cdot (A - B)\right]^2} \dots\right]}{\sqrt{\left[\left(D^2 + N_u^2\right) \cdot (A - B) + \sqrt{\left(D^2 + N_u^2\right)^2 \cdot (A - B)^2 - 4 \cdot C^2 \cdot \left[B \cdot D + N_u \cdot (A - B)\right]^2} \dots\right]^2} \cdot \left(2 \cdot B \cdot D^2 + 2 \cdot B \cdot N_u^2 - 2 \cdot B \cdot C \cdot D - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right)} = 0$$



Unit.

$AB := 1$

Given.

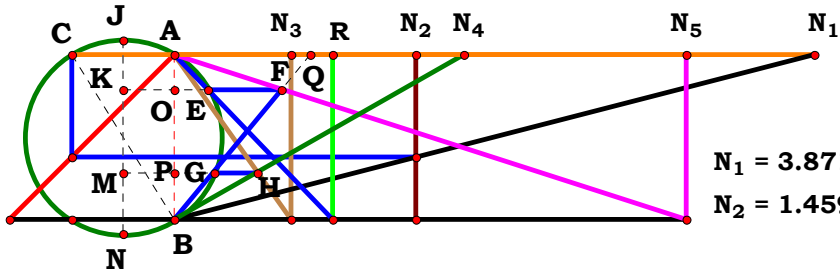
$N_1 := 3.87172$

$N_2 := 1.45996$

$N_3 := .70920$

$N_4 := 1.75290$

$N_5 := 3.09945$



$N_3 = 0.70920$

$N_4 = 1.75290$

$N_5 = 3.09945$

$R = 0.95741$

Descriptions.

$AC := \frac{N_1 - N_2}{N_1}$ $BP := \frac{AB \cdot N_3}{N_3 + N_4}$

$JN := \sqrt{AB^2 + AC^2}$ $JM := JN - \left(BP + \frac{JN - AB}{2} \right)$

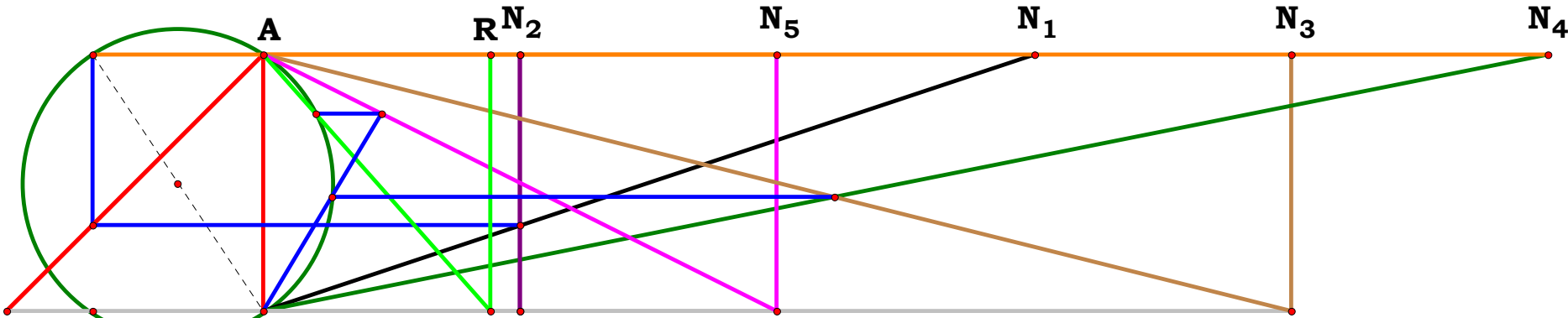
$GM := \sqrt{JM \cdot (JN - JM)}$ $PG := GM - \frac{AC}{2}$

$AQ := \frac{PG \cdot AB}{BP}$ $AO := \frac{AB \cdot AQ}{AQ + N_5}$

$JK := AO + \frac{JN - AB}{2}$ $EK := \sqrt{JK \cdot (JN - JK)}$

$EO := EK - \frac{AC}{2}$ $R := \frac{EO \cdot AB}{AO}$

$R = 0.957407$



$N_1 = 3.00000$

$N_2 = 1.00000$

$N_3 = 4.00000$

$N_4 = 5.00000$

$N_5 = 2.00000$

$R = 0.88542$

$AB = 1.00000$

$AC = 0.66667$

$BP = 0.44444$

$JN = 1.20185$

$JM = 0.65648$

$GM = 0.59835$

$PG = 0.26502$

$AQ = 0.59629$

$AO = 0.22967$

$JK = 0.33060$

$EK = 0.53669$

$EO = 0.20335$

$R \cdot \frac{EO \cdot AB}{AO} = 0.00000$



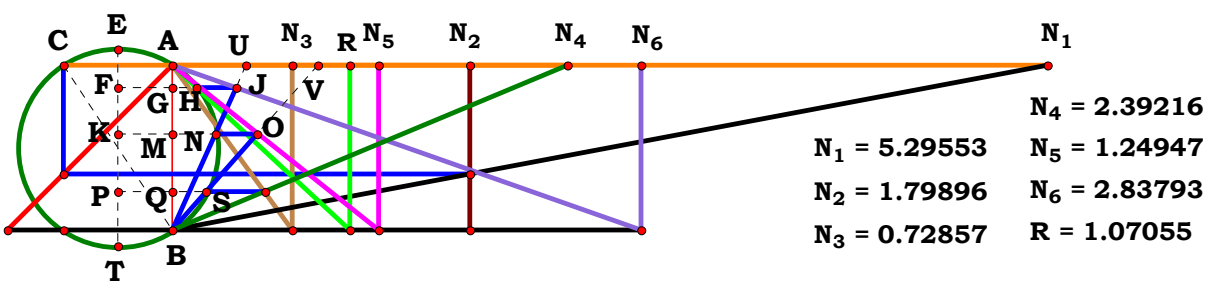
Unit.

$AB := 1$

Given.

$N_1 := 5.29553$
 $N_2 := 1.79896$

$N_3 := .72857$
 $N_4 := 2.39216$
 $N_5 := 1.24947$
 $N_6 := 2.83793$



Descriptions.

$AC := \frac{N_1 - N_2}{N_1}$
 $BQ := \frac{AB \cdot N_3}{N_3 + N_4}$

$ET := \sqrt{AB^2 + AC^2}$
 $EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$

$PS := \sqrt{EP \cdot (ET - EP)}$
 $QS := PS - \frac{AC}{2}$

$AV := \frac{QS \cdot AB}{BQ}$
 $BM := \frac{AB \cdot N_5}{AV + N_5}$

$KT := BM + \frac{ET - AB}{2}$

$KN := \sqrt{KT \cdot (ET - KT)}$

$MN := KN - \frac{AC}{2}$

$AU := \frac{MN \cdot AB}{BM}$

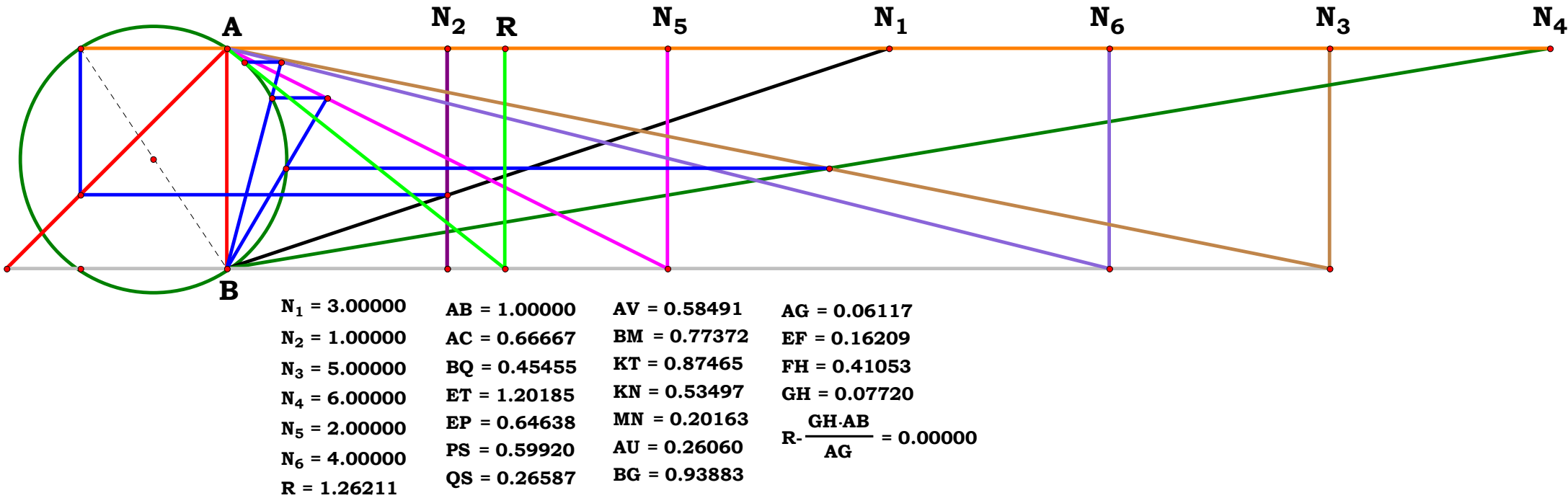
$BG := \frac{AB \cdot N_6}{AU + N_6}$
 $AG := AB - BG$

$EF := AG + \frac{ET - AB}{2}$
 $FH := \sqrt{EF \cdot (ET - EF)}$

$GH := FH - \frac{AC}{2}$
 $R := \frac{GH \cdot AB}{AG}$

$R = 1.070553$

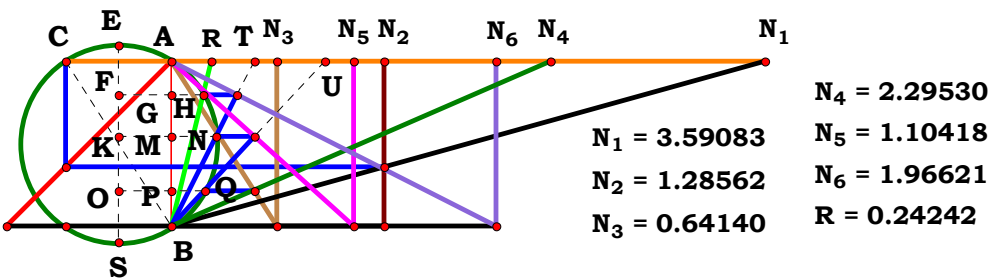
Definitions.





Unit.
AB := 1
Given.
N₁ := 3.59083
N₂ := 1.28562
N₃ := .64140
N₄ := 2.29530
N₅ := 1.10418
N₆ := 1.96621

4RST3AB1R5



Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$
$$ES := \sqrt{AB^2 + AC^2} \quad OS := BP + \frac{ES - AB}{2}$$
$$OQ := \sqrt{OS \cdot (ES - OS)} \quad PQ := OQ - \frac{AC}{2}$$

$$AU := \frac{PQ \cdot AB}{BP}$$

$$BM := \frac{AB \cdot N_5}{N_5 + AU}$$

$$KS := BM + \frac{ES - AB}{2}$$

$$KN := \sqrt{KS \cdot (ES - KS)}$$

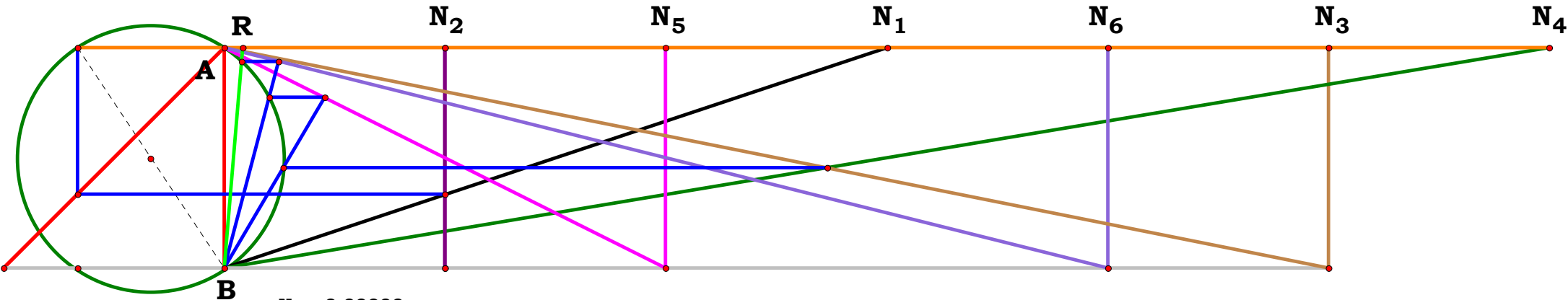
$$MN := KN - \frac{AC}{2} \quad AT := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{N_6 \cdot AB}{N_6 + AT} \quad FS := BG + \frac{ES - AB}{2}$$

$$FH := \sqrt{FS \cdot (ES - FS)} \quad GH := FH - \frac{AC}{2}$$

$$R := \frac{GH \cdot AB}{BG} \quad R = 0.242424$$

Definitions.



N ₁ = 3.00000	AB = 1.00000	AU = 0.58491	FS = 1.03976
N ₂ = 1.00000	AC = 0.66667	BM = 0.77372	FH = 0.41053
N ₃ = 5.00000	BP = 0.45455	KS = 0.87465	GH = 0.07720
N ₄ = 6.00000	ES = 1.20185	KN = 0.53497	R- $\frac{GH \cdot AB}{BG}$ = 0.00000
N ₅ = 2.00000	OS = 0.55547	MN = 0.20163	
N ₆ = 4.00000	OQ = 0.59920	AT = 0.26060	
R = 0.08223	PQ = 0.26587	BG = 0.93883	



Unit.

$AB := 1$

Given.

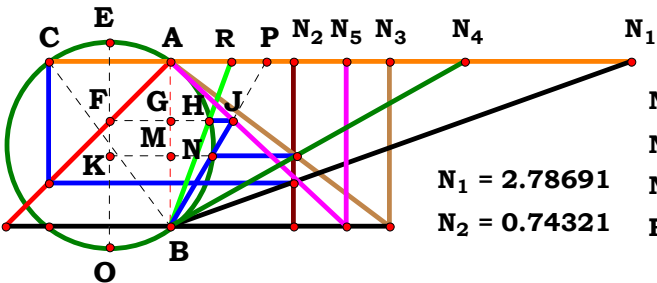
$N_1 := 2.78691$

$N_2 := .74321$

$N_3 := 1.32909$

$N_4 := 1.78196$

$N_5 := 1.06544$



$N_3 = 1.32909$

$N_4 = 1.78196$

$N_5 = 1.06544$

$R = 0.36493$

$N_1 = 2.78691$

$N_2 = 0.74321$

Descriptions.

$AC := \frac{N_1 - N_2}{N_1}$ $BM := \frac{N_3 \cdot AB}{N_3 + N_4}$

$EO := \sqrt{AB^2 + AC^2}$ $KO := BM + \frac{EO - AB}{2}$

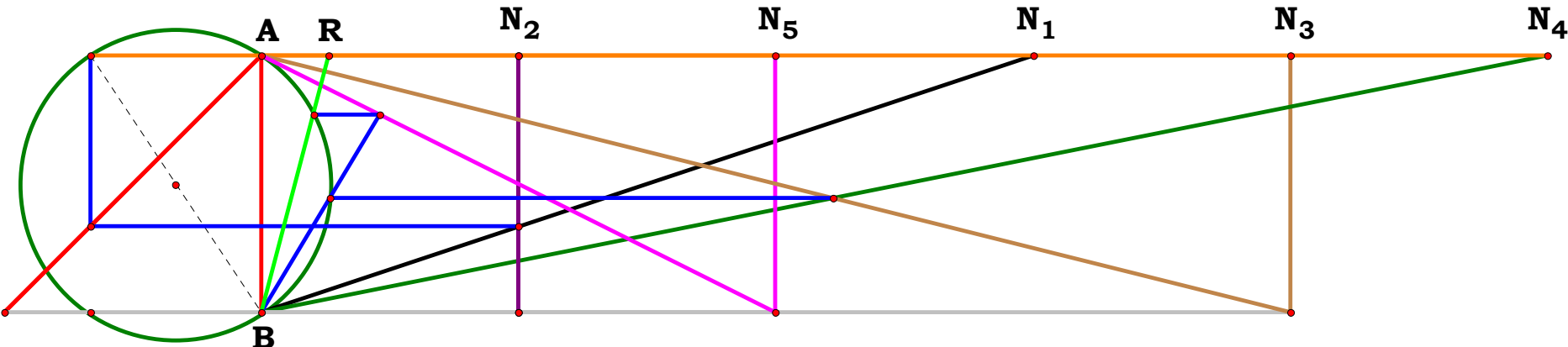
$KN := \sqrt{KO \cdot (EO - KO)}$ $MN := KN - \frac{AC}{2}$

$AP := \frac{MN \cdot AB}{BM}$ $BG := \frac{N_5 \cdot AB}{AP + N_5}$

$FO := BG + \frac{EO - AB}{2}$ $FH := \sqrt{FO \cdot (EO - FO)}$

$GH := FH - \frac{AC}{2}$ $R := \frac{GH \cdot AB}{BG}$

$R = 0.364931$



$N_1 = 3.00000$

$N_2 = 1.00000$

$N_3 = 4.00000$

$N_4 = 5.00000$

$N_5 = 2.00000$

$R = 0.26398$

$AB = 1.00000$

$AC = 0.66667$

$BM = 0.44444$

$EO = 1.20185$

$KO = 0.54537$

$KN = 0.59835$

$MN = 0.26502$

$AP = 0.59629$

$BG = 0.77033$

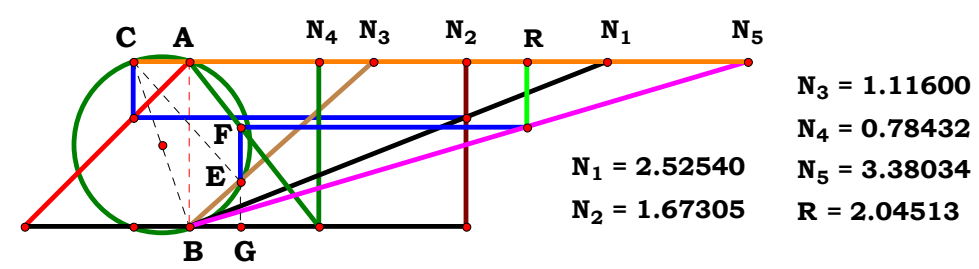
$FO = 0.87125$

$FH = 0.53669$

$GH = 0.20335$

$R - \frac{GH \cdot AB}{BG} = 0.00000$

Definitions.



Unit. **AB** := 1 Given. **N₁** := 2.52540 **N₂** := 1.67305 **N₃** := 1.11600

N₄ := .78432 **N₅** := 3.38034

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$ **D** := $\frac{N_u}{N_4}$ **E** := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{B \cdot N_u^3 + N_u^2 \cdot D \cdot (B - A) + N_u \cdot B \cdot C \cdot (C - D)}{B \cdot E \cdot (C^2 + N_u^2)} = 2.045128$$

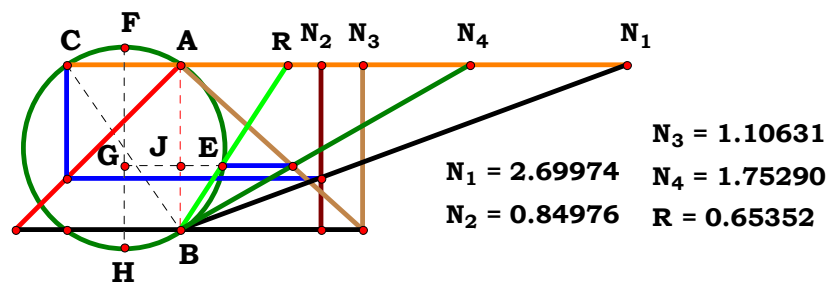
Num := $\frac{B \cdot N_u^3 + N_u^2 \cdot D \cdot (B - A) + N_u \cdot B \cdot C \cdot (C - D)}{\sqrt{\left[B \cdot N_u^3 + N_u^2 \cdot D \cdot (B - A) + N_u \cdot B \cdot C \cdot (C - D) \right]^2}}$

Den := $\frac{B \cdot E \cdot (C^2 + N_u^2)}{\sqrt{\left[B \cdot E \cdot (C^2 + N_u^2) \right]^2}}$

L := $\frac{\text{Num}}{\text{Den}}$

Num = 1 **Den** = 1 **L** = 1

$$L - \frac{\sqrt{B^2 \cdot E^2 \cdot (C^2 + N_u^2)^2} \cdot \left[B \cdot N_u^3 - D \cdot (A - B) \cdot N_u^2 + B \cdot C \cdot (C - D) \cdot N_u \right]}{B \cdot E \cdot \sqrt{\left[B \cdot N_u^3 - D \cdot (A - B) \cdot N_u^2 + B \cdot C \cdot (C - D) \cdot N_u \right]^2} \cdot (C^2 + N_u^2)} = 0$$



Unit. AB := 1 Given. $N_1 := 2.69974$ $N_2 := .84979$ $N_3 := 1.10631$

$$\mathbf{N}_4 := 1.75290$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{(\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B}) + \sqrt{(\mathbf{C}^2 + \mathbf{D}^2) \cdot (\mathbf{A} - \mathbf{B})^2 + 2 \cdot \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} + 3 \cdot \mathbf{B}^2)}}{2 \cdot \mathbf{B} \cdot \mathbf{D}} = 0.653525$$

$$\mathbf{Num} := \frac{(\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B}) + \sqrt{(\mathbf{C}^2 + \mathbf{D}^2) \cdot (\mathbf{A} - \mathbf{B})^2 + 2 \cdot \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} + 3 \cdot \mathbf{B}^2)}}{\sqrt{\left[(\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B}) + \sqrt{(\mathbf{C}^2 + \mathbf{D}^2) \cdot (\mathbf{A} - \mathbf{B})^2 + 2 \cdot \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} + 3 \cdot \mathbf{B}^2)} \right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{B} \cdot \mathbf{D}}{\sqrt{(2 \cdot \mathbf{B} \cdot \mathbf{D})^2}}$$

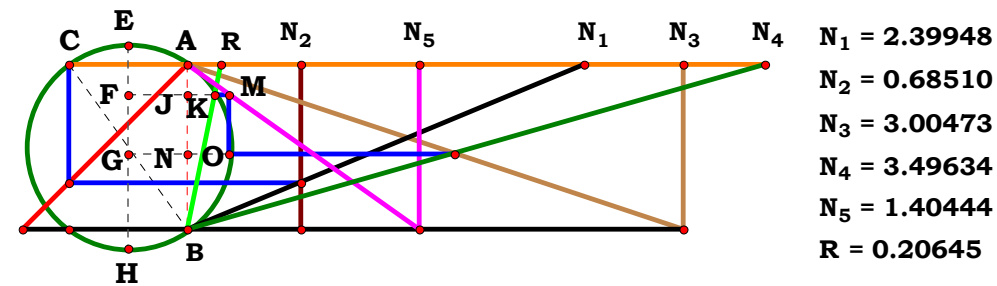
$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\left[(\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B}) + \sqrt{(\mathbf{C}^2 + \mathbf{D}^2) \cdot (\mathbf{A} - \mathbf{B})^2 + 2 \cdot \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} + 3 \cdot \mathbf{B}^2)} \right] \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{D}^2}}{\mathbf{B} \cdot \mathbf{D} \cdot \sqrt{\left[(\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B}) + \sqrt{(\mathbf{C}^2 + \mathbf{D}^2) \cdot (\mathbf{A} - \mathbf{B})^2 + 2 \cdot \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A}^2 - 2 \cdot \mathbf{A} \cdot \mathbf{B} + 3 \cdot \mathbf{B}^2)} \right]^2}} = 0$$



Unit.
AB := 1
 Given.
N₁ := 2.39948 **N₃** := 3.00473
N₂ := .68510 **N₄** := 3.49634
N₅ := 1.40444



Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2}$$

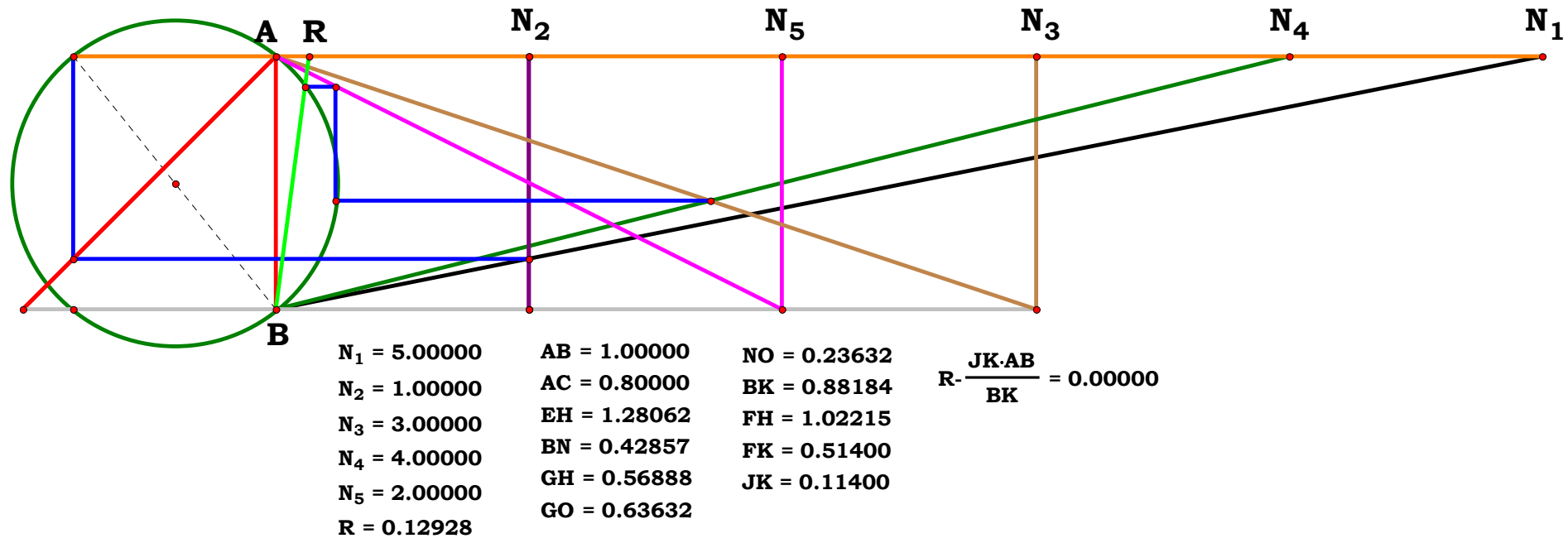
$$BN := \frac{AB \cdot N_3}{N_3 + N_4} \quad GH := BN + \frac{EH - AB}{2}$$

$$GO := \sqrt{GH \cdot (EH - GH)} \quad NO := GO - \frac{AC}{2}$$

$$BK := \frac{AB \cdot (N_5 - NO)}{N_5} \quad FH := BK + \frac{EH - AB}{2}$$

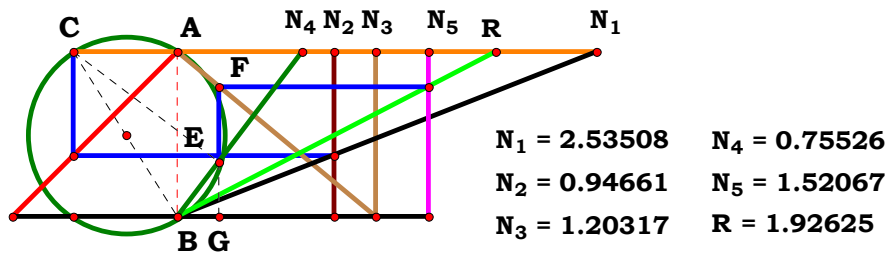
$$FK := \sqrt{FH \cdot (EH - FH)} \quad JK := FK - \frac{AC}{2}$$

$$R := \frac{JK \cdot AB}{BK} \quad R = 0.206449$$



Definitions.

$$R - \frac{N_5 \cdot \sqrt{(N_3 + N_4)^2} \cdot \left[\sqrt{(N_3 + N_4) \cdot \left[2 \cdot \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} \cdot \sqrt{(N_3 + N_4)^2 \cdot (AC + N_5) + 4 \cdot N_3^2} \dots \right.} \right.}{\sqrt{N_5^2 \cdot (N_3 + N_4)^3} \cdot \left[AC \cdot \sqrt{(N_3 + N_4)^2} - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} + 2 \cdot N_5 \cdot \sqrt{(N_3 + N_4)^2} \right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.53508$ $N_2 := .94661$ $N_3 := 1.20317$

$N_4 := .75526$ $N_5 := 1.52067$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{B \cdot N_u \cdot (D^2 + N_u^2)}{E \cdot [B \cdot (D^2 - C \cdot D + N_u^2) - C \cdot N_u \cdot (A - B)]} = 1.926251$$

$$Num := \frac{B \cdot N_u \cdot (D^2 + N_u^2)}{\sqrt{[B \cdot N_u \cdot (D^2 + N_u^2)]^2}}$$

$$Den := \frac{E \cdot [B \cdot (D^2 - C \cdot D + N_u^2) - C \cdot N_u \cdot (A - B)]}{\sqrt{[E \cdot [B \cdot (D^2 - C \cdot D + N_u^2) - C \cdot N_u \cdot (A - B)]]^2}}$$

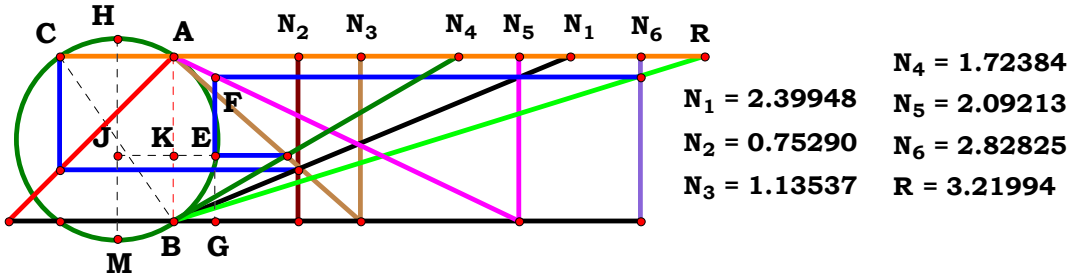
$$L := \frac{Num}{Den}$$

$Num = 1$

$Den = 1$

$L = 1$

$$L - \frac{B \cdot N_u \cdot (D^2 + N_u^2) \cdot \sqrt{E^2 \cdot [B \cdot (D^2 - C \cdot D + N_u^2) - C \cdot N_u \cdot (A - B)]^2}}{E \cdot [B \cdot (D^2 - C \cdot D + N_u^2) - C \cdot N_u \cdot (A - B)] \cdot \sqrt{B^2 \cdot N_u^2 \cdot (D^2 + N_u^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := .75290$ $N_3 := 1.13537$

$N_4 := 1.72384$ $N_5 := 2.09213$ $N_6 := 2.82825$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6}$$

Descriptions.

$$\frac{2 \cdot B \cdot N_u^2 \cdot (C + D)}{F \cdot \left[(C + D) \cdot \left[E \cdot (B - A) + 2 \cdot B \cdot N_u \right] - E \cdot \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right]} = 3.219938$$

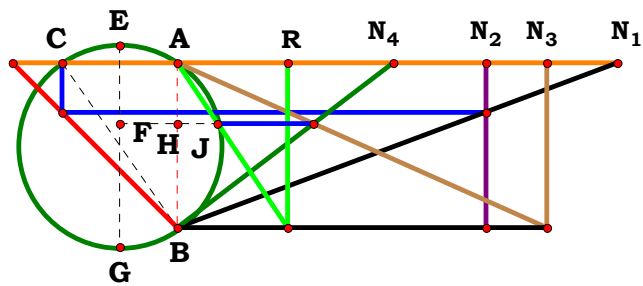
$$Num := \frac{2 \cdot B \cdot N_u^2 \cdot (C + D)}{\sqrt{\left[2 \cdot B \cdot N_u^2 \cdot (C + D) \right]^2}}$$

$$Den := \frac{F \cdot \left[(C + D) \cdot \left[E \cdot (B - A) + 2 \cdot B \cdot N_u \right] - E \cdot \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right]}{\sqrt{\left[F \cdot \left[(C + D) \cdot \left[E \cdot (B - A) + 2 \cdot B \cdot N_u \right] - E \cdot \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{B \cdot N_u^2 \cdot (C + D) \cdot \sqrt{F^2 \cdot \left[(C + D) \cdot \left[E \cdot (B - A) + 2 \cdot B \cdot N_u \right] - E \cdot \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right]^2}}{F \cdot \left[(C + D) \cdot \left[E \cdot (B - A) + 2 \cdot B \cdot N_u \right] - E \cdot \sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right] \cdot \sqrt{B^2 \cdot N_u^4 \cdot (C + D)^2}} = 0$$



$N_1 = 2.66100$
 $N_2 = 1.86676$
 $N_3 = 2.23955$
 $N_4 = 1.30735$
 $R = 0.66659$

Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 1.86676$ $N_3 := 2.23955$
 $N_4 := 1.30735$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)}{2 \cdot B \cdot C} = 0.666591 \quad \text{Num} := \frac{\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)}{\sqrt{\left[\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)\right]^2}} \quad \text{Den} := \frac{2 \cdot B \cdot C}{\sqrt{(2 \cdot B \cdot C)^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)\right] \cdot \sqrt{B^2 \cdot C^2}}{B \cdot C \cdot \sqrt{\left[\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)\right]^2}} = 0$$



Given.

$AB := 1$

Unit.

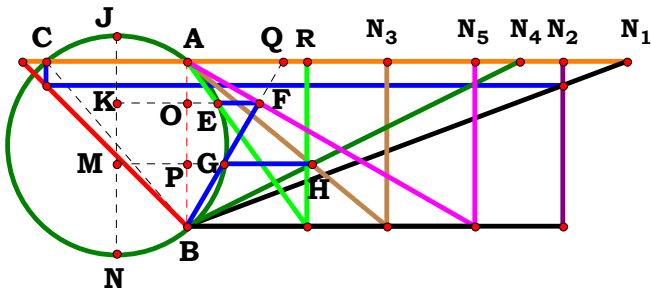
$N_1 := 2.66100$

$N_2 := 1.50839$

$N_3 := 1.212839$

$N_4 := 2.01441$

$N_5 := 1.74751$



$N_1 = 2.66100$

$N_2 = 2.27357$

$N_3 = 1.21286$

$N_4 = 2.01441$

$N_5 = 1.74751$

$R = 0.72462$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$JN := \sqrt{AB^2 + AC^2} \quad JM := JN - \left(BP + \frac{JN - AB}{2} \right)$$

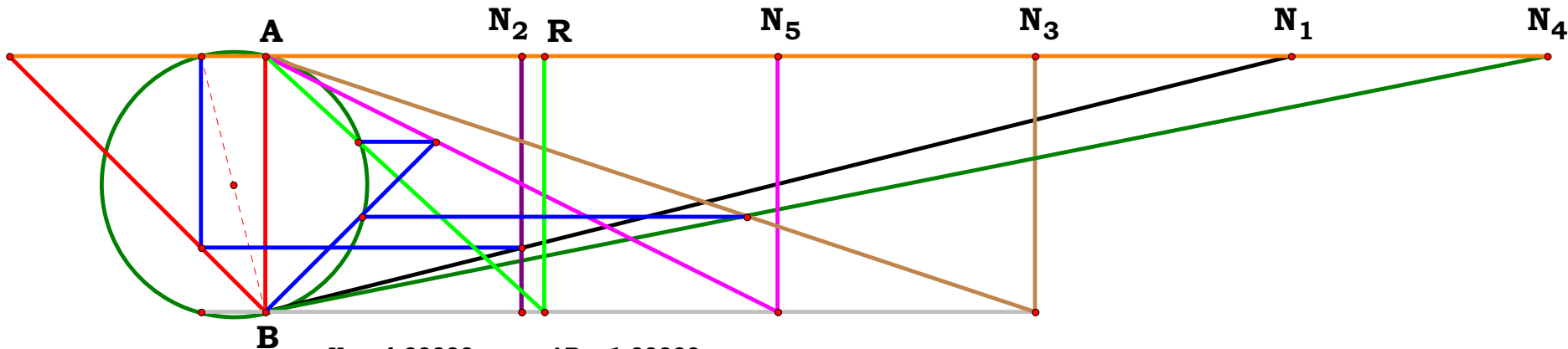
$$GM := \sqrt{JM \cdot (JN - JM)} \quad PG := GM - \frac{AC}{2}$$

$$AQ := \frac{PG \cdot AB}{BP} \quad AO := \frac{AB \cdot AQ}{AQ + N_5}$$

$$JK := AO + \frac{JN - AB}{2} \quad EK := \sqrt{JK \cdot (JN - JK)}$$

$$EO := EK - \frac{AC}{2} \quad R := \frac{EO \cdot AB}{AO}$$

$R = 0.855795$



$N_1 = 4.00000$

$N_2 = 1.00000$

$N_3 = 3.00000$

$N_4 = 5.00000$

$N_5 = 2.00000$

$R = 1.08809$

$AB = 1.00000$

$AC = 0.25000$

$BP = 0.37500$

$JN = 1.03078$

$JM = 0.64039$

$GM = 0.50000$

$PG = 0.37500$

$AQ = 1.00000$

$AO = 0.33333$

$JK = 0.34872$

$EK = 0.48770$

$EO = 0.36270$

$$R - \frac{EO \cdot AB}{AO} = 0.00000$$



Unit.

AB := 1

Given.

N₁ := 3.72643

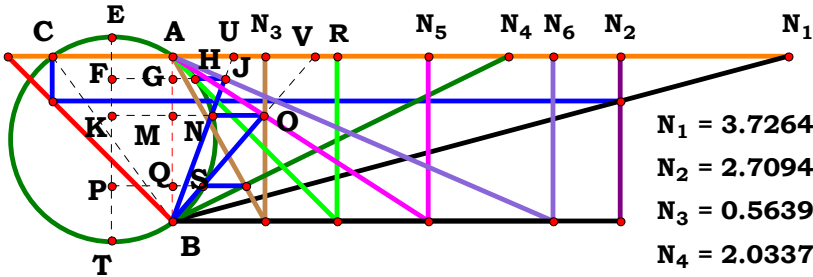
N₂ := 2.70943

N₃ := .56391

N₄ := 2.03379

N₅ := 1.55380

N₆ := 2.30522



Descriptions.

$$AC := \frac{N_2}{N_1} \quad BQ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ET := \sqrt{AB^2 + AC^2} \quad EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$$

$$PS := \sqrt{EP \cdot (ET - EP)} \quad QS := PS - \frac{AC}{2}$$

$$AV := \frac{QS \cdot AB}{BQ} \quad BM := \frac{AB \cdot N_5}{AV + N_5}$$

$$KT := BM + \frac{ET - AB}{2} \quad KN := \sqrt{KT \cdot (ET - KT)}$$

$$MN := KN - \frac{AC}{2} \quad AU := \frac{MN \cdot AB}{BM}$$

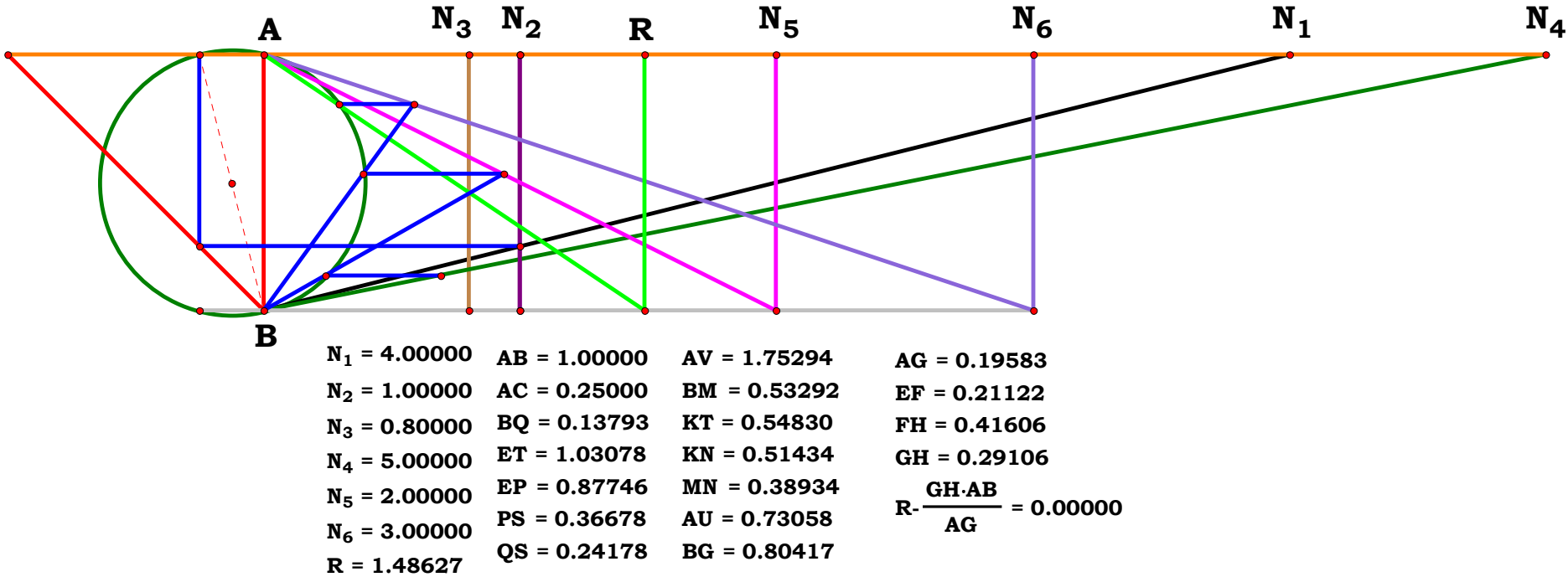
$$BG := \frac{AB \cdot N_6}{AU + N_6} \quad AG := AB - BG$$

$$EF := AG + \frac{ET - AB}{2} \quad FH := \sqrt{EF \cdot (ET - EF)}$$

$$GH := FH - \frac{AC}{2} \quad R := \frac{GH \cdot AB}{AG}$$

R = 0.997203

Definitions.





Unit.

$$AB := 1$$

Given.

$$N_1 := 2.59320$$

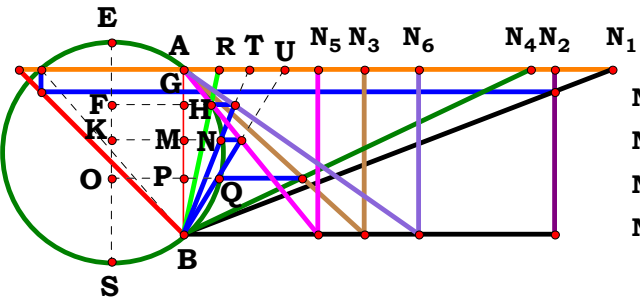
$$N_2 := 2.24451$$

$$N_3 := 1.09663$$

$$N_4 := 2.10159$$

$$N_5 := .81768$$

$$N_6 := 1.42381$$



$$N_1 = 2.59320$$

$$N_5 = 0.81768$$

$$N_2 = 2.24451$$

$$N_6 = 1.42381$$

$$N_3 = 1.09663$$

$$R = 0.20977$$

$$N_4 = 2.10159$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ES := \sqrt{AB^2 + AC^2} \quad OS := BP + \frac{ES - AB}{2}$$

$$OQ := \sqrt{OS \cdot (ES - OS)} \quad PQ := OQ - \frac{AC}{2}$$

$$AU := \frac{PQ \cdot AB}{BP} \quad BM := \frac{AB \cdot N_5}{N_5 + AU}$$

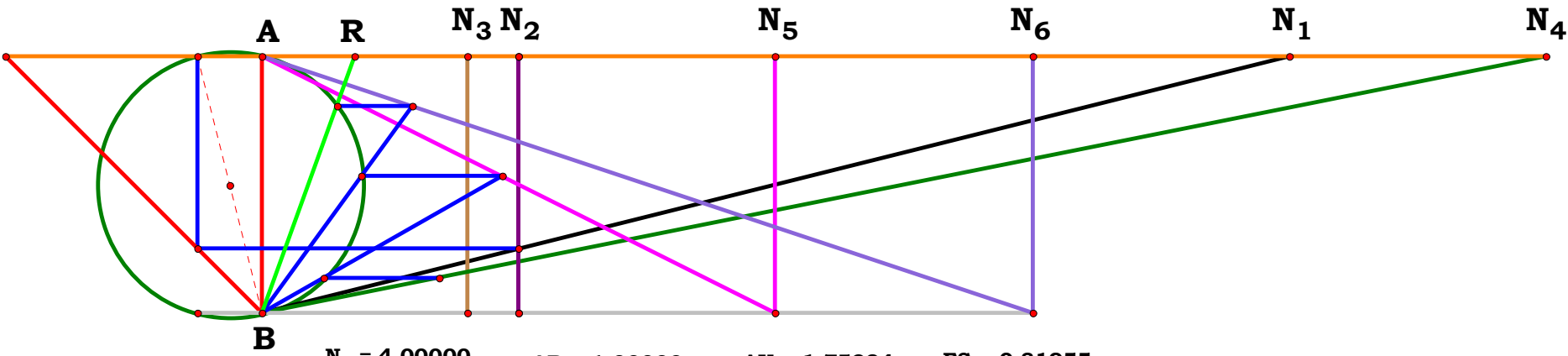
$$KS := BM + \frac{ES - AB}{2} \quad KN := \sqrt{KS \cdot (ES - KS)}$$

$$MN := KN - \frac{AC}{2} \quad AT := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{N_6 \cdot AB}{N_6 + AT} \quad FS := BG + \frac{ES - AB}{2}$$

$$FH := \sqrt{FS \cdot (ES - FS)} \quad GH := FH - \frac{AC}{2}$$

$$R := \frac{GH \cdot AB}{BG} \quad R = 0.209765$$



$$N_1 = 4.00000$$

$$AB = 1.00000$$

$$AU = 1.75294$$

$$FS = 0.81955$$

$$N_2 = 1.00000$$

$$AC = 0.25000$$

$$BM = 0.53292$$

$$FH = 0.41606$$

$$N_3 = 0.80000$$

$$BP = 0.13793$$

$$KS = 0.54830$$

$$GH = 0.29106$$

$$N_4 = 5.00000$$

$$ES = 1.03078$$

$$KN = 0.51434$$

$$R \cdot \frac{GH \cdot AB}{BG} = 0.00000$$

$$N_5 = 2.00000$$

$$OS = 0.15332$$

$$MN = 0.38934$$

$$AT = 0.73058$$

$$N_6 = 3.00000$$

$$OQ = 0.36678$$

$$BG = 0.80417$$

$$PQ = 0.24178$$

Definitions.



Unit.

$$AB := 1$$

Given.

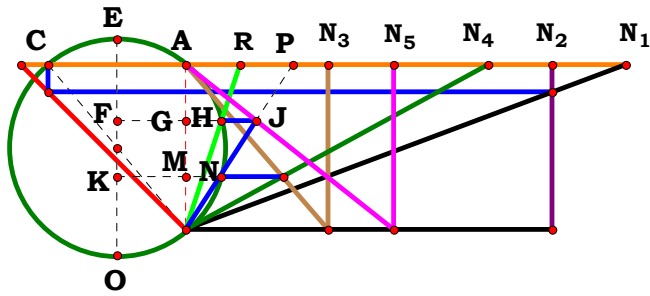
$$N_1 := 2.66100$$

$$N_2 := 2.21545$$

$$N_3 := .86417$$

$$N_4 := 1.83038$$

$$N_5 := 1.26322$$



$$N_1 = 2.66100$$

$$N_2 = 2.21545$$

$$N_3 = 0.86417$$

$$N_4 = 1.83038$$

$$N_5 = 1.26322$$

$$R = 0.32517$$

Descriptions.

$$AC := \frac{N_2}{N_1} \quad BM := \frac{N_3 \cdot AB}{N_3 + N_4}$$

$$EO := \sqrt{AB^2 + AC^2} \quad KO := BM + \frac{EO - AB}{2}$$

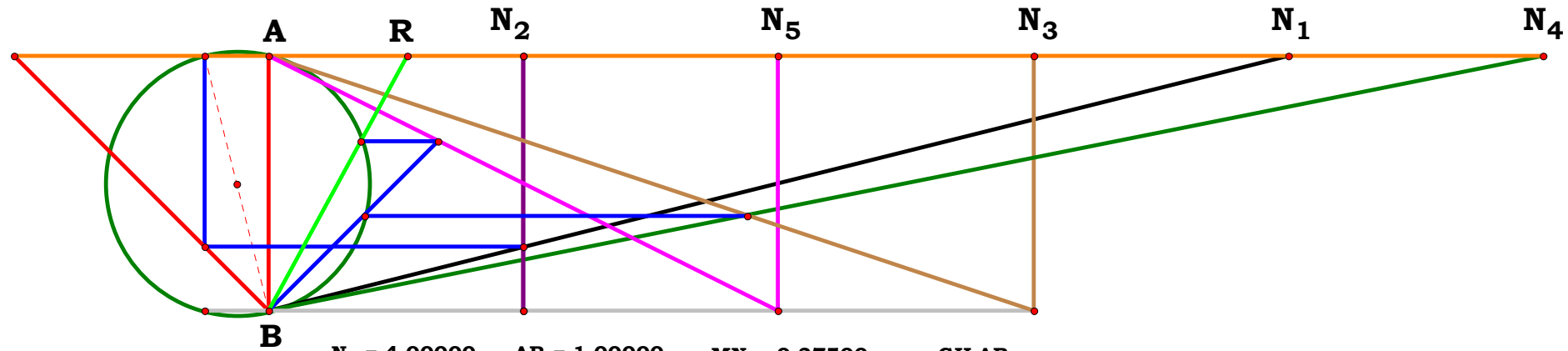
$$KN := \sqrt{KO \cdot (EO - KO)} \quad MN := KN - \frac{AC}{2}$$

$$AP := \frac{MN \cdot AB}{BM} \quad BG := \frac{N_5 \cdot AB}{AP + N_5}$$

$$FO := BG + \frac{EO - AB}{2} \quad FH := \sqrt{FO \cdot (EO - FO)}$$

$$GH := FH - \frac{AC}{2} \quad R := \frac{GH \cdot AB}{BG}$$

$$R = 0.325173$$



$$N_1 = 4.00000$$

$$N_2 = 1.00000$$

$$N_3 = 3.00000$$

$$N_4 = 5.00000$$

$$N_5 = 2.00000$$

$$R = 0.54404$$

$$AB = 1.00000$$

$$AC = 0.25000$$

$$BM = 0.37500$$

$$EO = 1.03078$$

$$KO = 0.39039$$

$$KN = 0.50000$$

$$MN = 0.37500$$

$$AP = 1.00000$$

$$BG = 0.66667$$

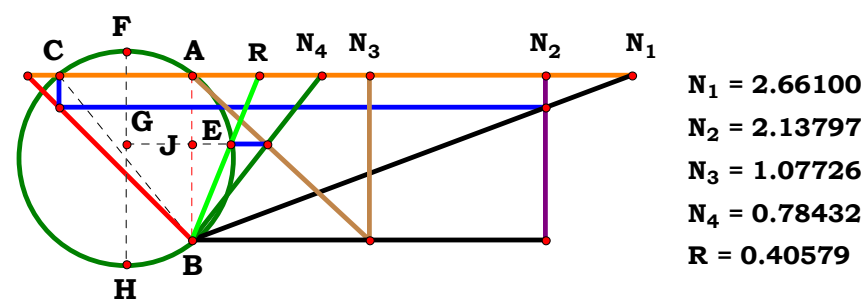
$$FO = 0.68205$$

$$FH = 0.48770$$

$$GH = 0.36270$$

$$R - \frac{GH \cdot AB}{BG} = 0.00000$$

Definitions.



Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 2.13797$ $N_3 := 1.07726$
 $N_4 := .78432$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)}{2 \cdot B \cdot D} = 0.40579$$
$$Num := \frac{\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)}{\sqrt{\left[\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)\right]^2}}$$
$$Den := \frac{2 \cdot B \cdot D}{\sqrt{(2 \cdot B \cdot D)^2}}$$
$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{\left[\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)\right] \cdot \sqrt{B^2 \cdot D^2}}{B \cdot D \cdot \sqrt{\left[\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} - A \cdot (C + D)\right]^2}} = 0$$



Unit.

$AB := 1$

Given.

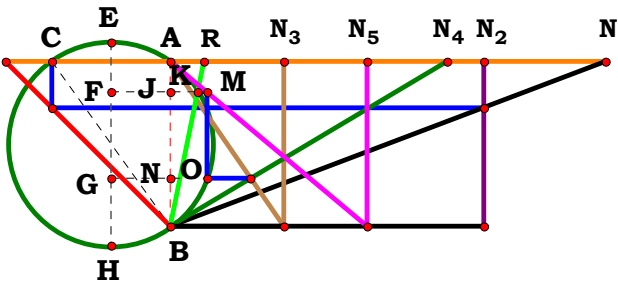
$N_1 := 2.63194$

$N_2 := 1.89582$

$N_3 := .68983$

$N_4 := 1.67541$

$N_5 := 1.19542$



$N_1 = 2.63194$
 $N_2 = 1.89582$
 $N_3 = 0.68983$
 $N_4 = 1.67541$
 $N_5 = 1.19542$
 $R = 0.20677$

Descriptions.

$AC := \frac{N_2}{N_1}$ $EH := \sqrt{AB^2 + AC^2}$

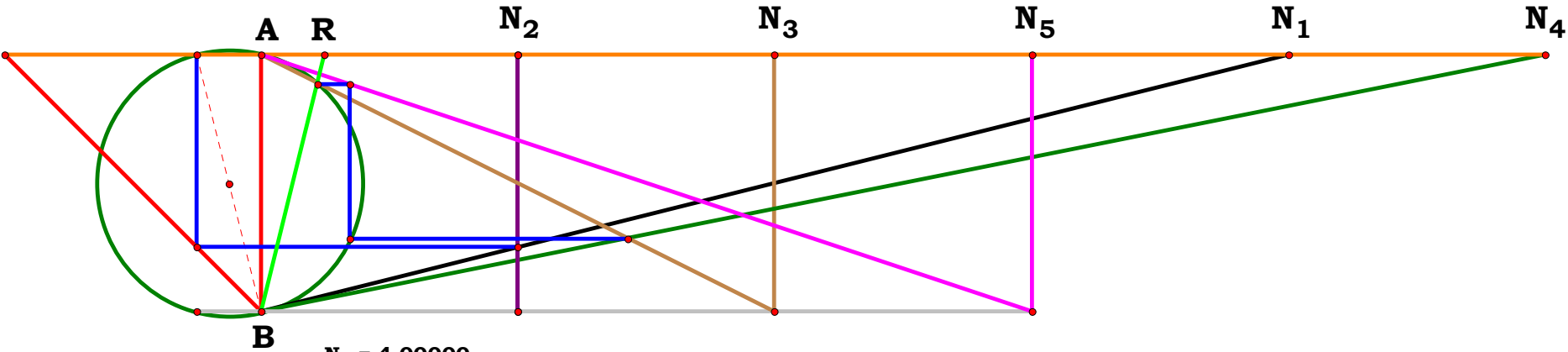
$BN := \frac{AB \cdot N_3}{N_3 + N_4}$ $GH := BN + \frac{EH - AB}{2}$

$GO := \sqrt{GH \cdot (EH - GH)}$ $NO := GO - \frac{AC}{2}$

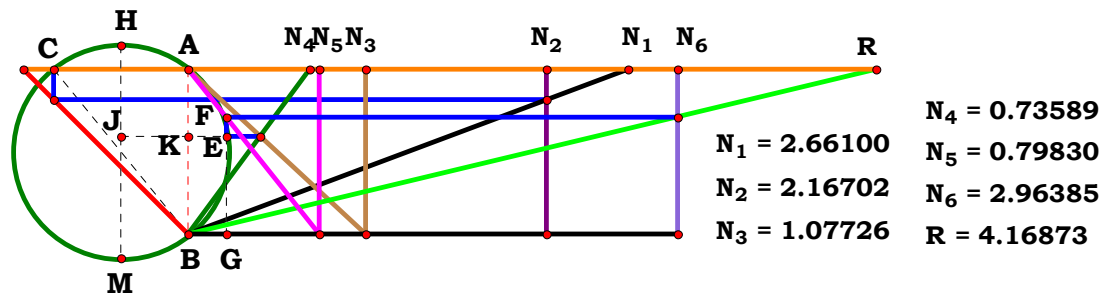
$BK := \frac{AB \cdot (N_5 - NO)}{N_5}$ $FH := BK + \frac{EH - AB}{2}$

$FK := \sqrt{FH \cdot (EH - FH)}$ $JK := FK - \frac{AC}{2}$

$R := \frac{JK \cdot AB}{BK}$ $R = 0.206773$



$N_1 = 4.00000$	$AB = 1.00000$	$NO = 0.34373$	$R \cdot \frac{JK \cdot AB}{BK} = 0.00000$
$N_2 = 1.00000$	$AC = 0.25000$	$BK = 0.88542$	
$N_3 = 2.00000$	$EH = 1.03078$	$FH = 0.90081$	
$N_4 = 5.00000$	$BN = 0.28571$	$FK = 0.34216$	
$N_5 = 3.00000$	$GH = 0.30110$	$JK = 0.21716$	
$R = 0.24526$	$GO = 0.46873$		



Unit. AB := 1 Given. $N_1 := 2.66100$ $N_2 := 2.16702$ $N_3 := 1.07726$

$N_4 := .73589$ $N_5 := .79830$ $N_6 := 2.96385$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot B \cdot N_u^2 \cdot (C + D)}{F \cdot \left[(C + D) \cdot (A \cdot E + 2 \cdot B \cdot N_u) - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} \right]} = 4.168744$$

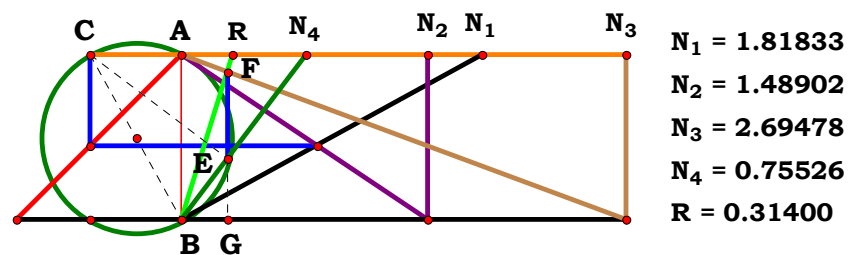
$$\text{Num} := \frac{2 \cdot B \cdot N_u^2 \cdot (C + D)}{\sqrt{\left[2 \cdot B \cdot N_u^2 \cdot (C + D) \right]^2}}$$

$$\text{Den} := \frac{F \cdot \left[(C + D) \cdot (A \cdot E + 2 \cdot B \cdot N_u) - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} \right]}{\sqrt{\left[F \cdot \left[(C + D) \cdot (A \cdot E + 2 \cdot B \cdot N_u) - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (A^2 + 2 \cdot B^2)} \right] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot \sqrt{\mathbf{F}^2 \cdot \left[(\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} \cdot \mathbf{E} + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) - \mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{D}^2) + 2 \cdot \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A}^2 + 2 \cdot \mathbf{B}^2)} \right]^2 \cdot (\mathbf{C} + \mathbf{D})}}{\mathbf{F} \cdot \left[(\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} \cdot \mathbf{E} + 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) - \mathbf{E} \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{D}^2) + 2 \cdot \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A}^2 + 2 \cdot \mathbf{B}^2)} \right] \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 \cdot (\mathbf{C} + \mathbf{D})^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 1.81833$ $N_2 := 1.48902$ $N_3 := 2.69478$

$$N_4 := .75526$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]}{\mathbf{D}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}} = 0.314003$$

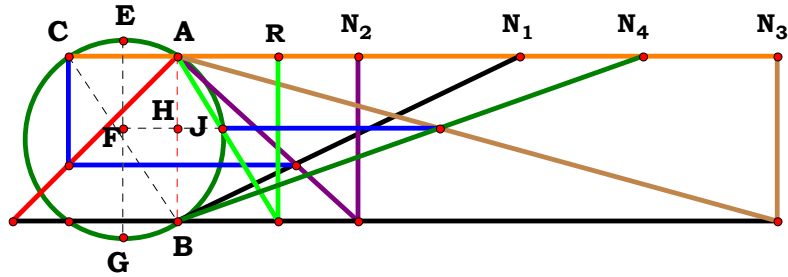
$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]}{\sqrt{[\mathbf{N_u} \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{D}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}}{\sqrt{[\mathbf{D}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] \cdot \sqrt{[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{D}^2 - \mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{D} + (\mathbf{A} + \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}]^2}}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot [\mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]^2 \cdot [(\mathbf{A} + \mathbf{B}) \cdot \mathbf{D}^2 - \mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{D} + (\mathbf{A} + \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}]}} = 0$$



N₁ = 2.07016
N₂ = 1.09190
N₃ = 3.63430
N₄ = 2.81833
R = 0.61113

Unit. AB := 1 Given. N₁ := 2.07016 N₂ := 1.09190 N₃ := 3.63430
N₄ := 2.81833

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)}{2 \cdot C \cdot (A + B)} = 0.611133$$

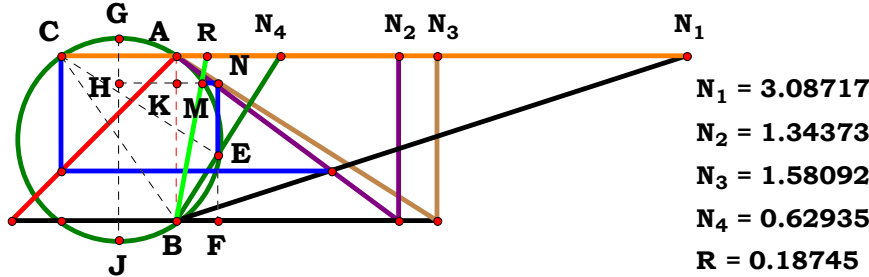
$$\text{Num} := \frac{\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)}{\sqrt{\left[\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)\right]^2}}$$

$$\text{Den} := \frac{2 \cdot C \cdot (A + B)}{\sqrt{\left[2 \cdot C \cdot (A + B)\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{C^2 \cdot (A + B)^2} \cdot \left[\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)\right]}{C \cdot (A + B) \cdot \sqrt{\left[\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.08717$ $N_2 := 1.34373$ $N_3 := 1.58092$

$N_4 := .62935$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{B \cdot \left(D^2 + N_u^2 \right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2 \right)^2 + 4 \cdot C \cdot \left[(A + B) \cdot \left(D^2 - C \cdot D + N_u^2 \right) + B \cdot C \cdot N_u \right] \cdot \left[D \cdot (A + B) - B \cdot N_u \right]}}{2 \cdot \left[D \cdot (C - D) \cdot (A + B) - N_u \cdot \left[B \cdot C + N_u \cdot (A + B) \right] \right]} = 0.187449$$

$$Num := \frac{B \cdot \left(D^2 + N_u^2 \right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2 \right)^2 + 4 \cdot C \cdot \left[(A + B) \cdot \left(D^2 - C \cdot D + N_u^2 \right) + B \cdot C \cdot N_u \right] \cdot \left[D \cdot (A + B) - B \cdot N_u \right]}}{\sqrt{\left[B \cdot \left(D^2 + N_u^2 \right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2 \right)^2 + 4 \cdot C \cdot \left[(A + B) \cdot \left(D^2 - C \cdot D + N_u^2 \right) + B \cdot C \cdot N_u \right] \cdot \left[D \cdot (A + B) - B \cdot N_u \right]} \right]^2}}$$

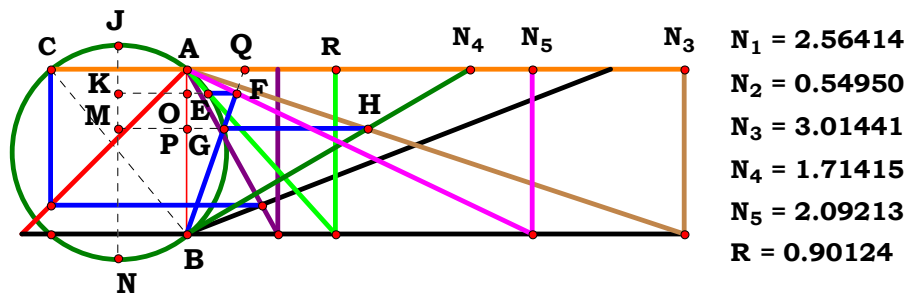
$$Den := \frac{2 \cdot \left[D \cdot (C - D) \cdot (A + B) - N_u \cdot \left[B \cdot C + N_u \cdot (A + B) \right] \right]}{\sqrt{\left[2 \cdot \left[D \cdot (C - D) \cdot (A + B) - N_u \cdot \left[B \cdot C + N_u \cdot (A + B) \right] \right] \right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = -1 \quad Den = -1 \quad L = 1$$

$$L - \frac{\sqrt{\left[2 \cdot \left[D \cdot (C - D) \cdot (A + B) - N_u \cdot \left[B \cdot C + N_u \cdot (A + B) \right] \right] \right]^2 \cdot \left[B \cdot \left(D^2 + N_u^2 \right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2 \right)^2 + 4 \cdot C \cdot \left[(A + B) \cdot \left(D^2 - C \cdot D + N_u^2 \right) + B \cdot C \cdot N_u \right] \cdot \left[D \cdot (A + B) - B \cdot N_u \right]} \right]}}{\sqrt{\left[B \cdot \left(D^2 + N_u^2 \right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2 \right)^2 + 4 \cdot C \cdot \left[(A + B) \cdot \left(D^2 - C \cdot D + N_u^2 \right) + B \cdot C \cdot N_u \right] \cdot \left[D \cdot (A + B) - B \cdot N_u \right]} \right]^2 \cdot \left[2 \cdot \left[D \cdot (C - D) \cdot (A + B) - N_u \cdot \left[B \cdot C + N_u \cdot (A + B) \right] \right] \right]}} = 0$$

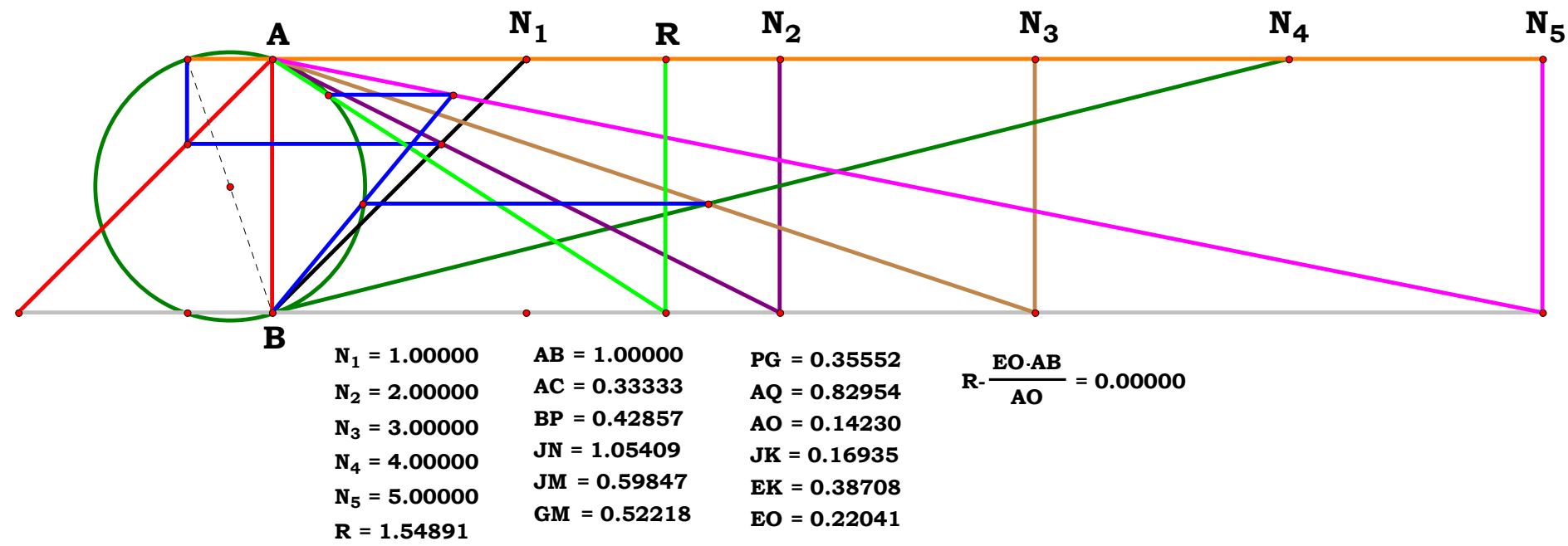


Unit.
AB := 1
Given.
N₁ := 3.87172 **N₃** := .70920
N₂ := 1.45996 **N₄** := 1.75290
 N₅ := 3.09945



Descriptions.

$$\begin{aligned} \mathbf{AC} &:= \frac{\mathbf{N_1}}{\mathbf{N_1} + \mathbf{N_2}} & \mathbf{BP} &:= \frac{\mathbf{AB} \cdot \mathbf{N_3}}{\mathbf{N_3} + \mathbf{N_4}} \\ \mathbf{JN} &:= \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} & \mathbf{JM} &:= \mathbf{JN} - \left(\mathbf{BP} + \frac{\mathbf{JN} - \mathbf{AB}}{2} \right) \\ \mathbf{GM} &:= \sqrt{\mathbf{JM} \cdot (\mathbf{JN} - \mathbf{JM})} & \mathbf{PG} &:= \mathbf{GM} - \frac{\mathbf{AC}}{2} \\ \mathbf{AQ} &:= \frac{\mathbf{PG} \cdot \mathbf{AB}}{\mathbf{BP}} & \mathbf{AO} &:= \frac{\mathbf{AB} \cdot \mathbf{AQ}}{\mathbf{AQ} + \mathbf{N_5}} \\ \mathbf{JK} &:= \mathbf{AO} + \frac{\mathbf{JN} - \mathbf{AB}}{2} & \mathbf{EK} &:= \sqrt{\mathbf{JK} \cdot (\mathbf{JN} - \mathbf{JK})} \\ \mathbf{EO} &:= \mathbf{EK} - \frac{\mathbf{AC}}{2} & \mathbf{R} &:= \frac{\mathbf{EO} \cdot \mathbf{AB}}{\mathbf{AO}} \\ \mathbf{R} &= 0.892637 \end{aligned}$$





Unit.

$$AB := 1$$

Given.

$$N_1 := 3.87172 \quad N_4 := 1.22018$$

$$N_2 := 1.41153 \quad N_5 := 1.67564$$

$$N_3 := .55423 \quad N_6 := 1.97696$$

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BQ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ET := \sqrt{AB^2 + AC^2} \quad EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$$

$$PS := \sqrt{EP \cdot (ET - EP)} \quad QS := PS - \frac{AC}{2}$$

$$AV := \frac{QS \cdot AB}{BQ}$$

$$BM := \frac{AB \cdot N_5}{AV + N_5}$$

$$KT := BM + \frac{ET - AB}{2}$$

$$KN := \sqrt{KT \cdot (ET - KT)}$$

$$MN := KN - \frac{AC}{2}$$

$$AU := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{AB \cdot N_6}{AU + N_6}$$

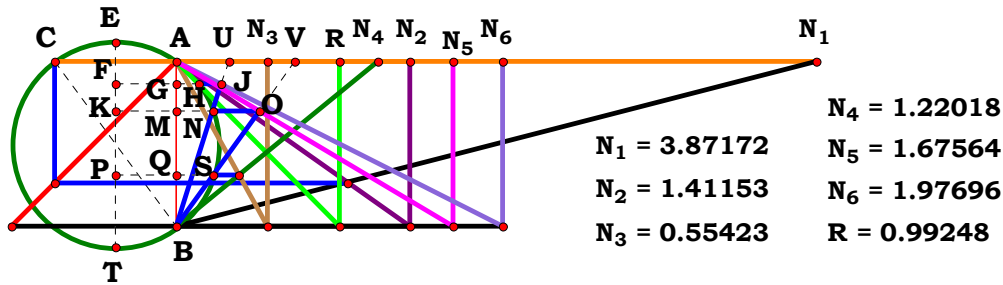
$$AG := AB - BG$$

$$EF := AG + \frac{ET - AB}{2} \quad FH := \sqrt{EF \cdot (ET - EF)}$$

$$GH := FH - \frac{AC}{2} \quad R := \frac{GH \cdot AB}{AG}$$

$$R = 0.992484$$

Definitions.

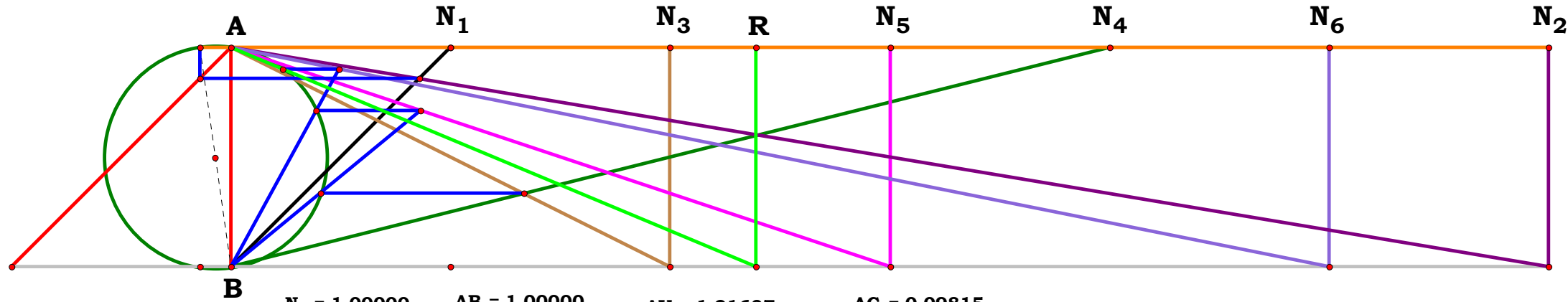


$$N_1 = 3.87172 \quad N_4 = 1.22018$$

$$N_2 = 1.41153 \quad N_5 = 1.67564$$

$$N_3 = 0.55423 \quad N_6 = 1.97696$$

$$R = 0.99248$$

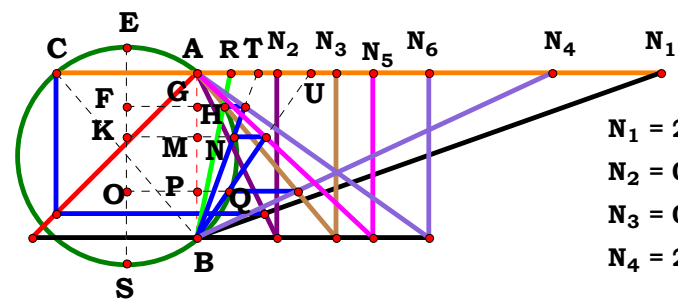


$N_1 = 1.00000$	$AB = 1.00000$	$AV = 1.21607$	$AG = 0.09815$
$N_2 = 6.00000$	$AC = 0.14286$	$BM = 0.71156$	$EF = 0.10323$
$N_3 = 2.00000$	$BQ = 0.33333$	$KT = 0.71664$	$FH = 0.30597$
$N_4 = 4.00000$	$ET = 1.01015$	$KN = 0.45863$	$GH = 0.23454$
$N_5 = 3.00000$	$EP = 0.67174$	$MN = 0.38720$	$R - \frac{GH \cdot AB}{AG} = 0.00000$
$N_6 = 5.00000$	$PS = 0.47679$	$AU = 0.54416$	
$R = 2.38964$	$QS = 0.40536$	$BG = 0.90185$	



Unit.
AB := 1
Given.
N₁ := 2.80628
N₂ := .48170

N₃ := .84480
N₄ := 2.15002
N₅ := 1.06544
N₆ := 1.40550



N₁ = 2.80628 N₅ = 1.06544
N₂ = 0.48170 N₆ = 1.40550
N₃ = 0.84480 R = 0.20285
N₄ = 2.15002

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ES := \sqrt{AB^2 + AC^2} \quad OS := BP + \frac{ES - AB}{2}$$

$$OQ := \sqrt{OS \cdot (ES - OS)} \quad PQ := OQ - \frac{AC}{2}$$

$$AU := \frac{PQ \cdot AB}{BP}$$

$$BM := \frac{AB \cdot N_5}{N_5 + AU}$$

$$KS := BM + \frac{ES - AB}{2}$$

$$KN := \sqrt{KS \cdot (ES - KS)}$$

$$MN := KN - \frac{AC}{2}$$

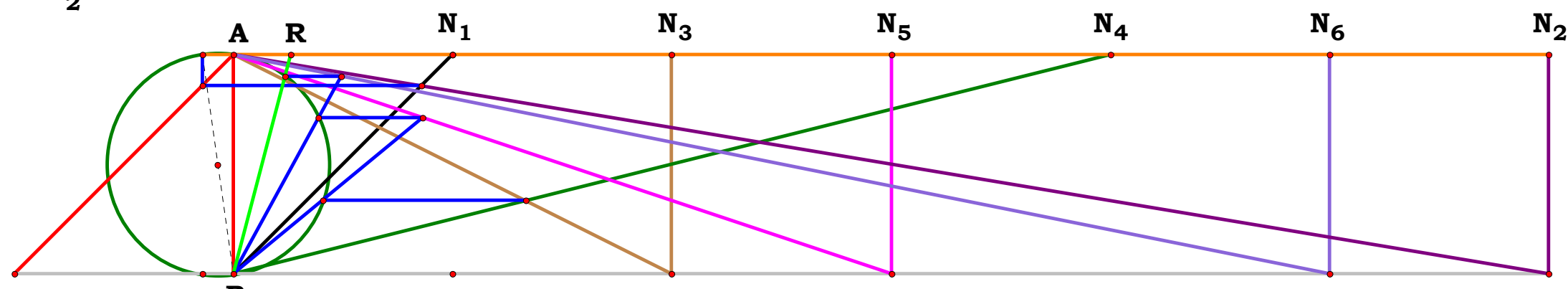
$$AT := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{N_6 \cdot AB}{N_6 + AT} \quad FS := BG + \frac{ES - AB}{2}$$

$$FH := \sqrt{FS \cdot (ES - FS)} \quad GH := FH - \frac{AC}{2}$$

$$R := \frac{GH \cdot AB}{BG} \quad R = 0.20285$$

Definitions.



N ₁ = 1.00000	AB = 1.00000	AU = 1.21607	FS = 0.90693
N ₂ = 6.00000	AC = 0.14286	BM = 0.71156	FH = 0.30597
N ₃ = 2.00000	BP = 0.33333	KS = 0.71664	GH = 0.23454
N ₄ = 4.00000	ES = 1.01015	KN = 0.45863	R - $\frac{GH \cdot AB}{BG}$ = 0.00000
N ₅ = 3.00000	OS = 0.33841	MN = 0.38720	
N ₆ = 5.00000	OQ = 0.47679	AT = 0.54416	
R = 0.26007	PQ = 0.40536	BG = 0.90185	



Unit.

$AB := 1$

Given.

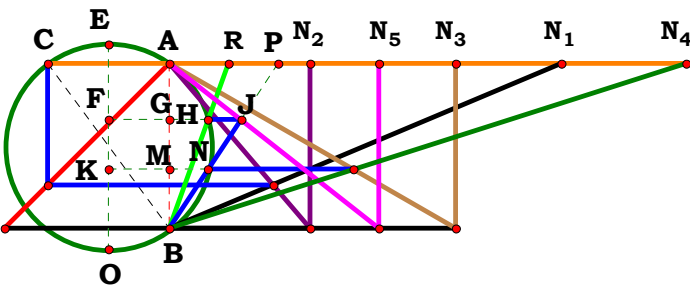
$N_1 := 2.37042$

$N_2 := .84976$

$N_3 := 1.73598$

$N_4 := 3.12828$

$N_5 := 1.26884$



$N_1 = 2.37042$

$N_2 = 0.84976$

$N_3 = 1.73589$

$N_4 = 3.12828$

$N_5 = 1.26884$

$R = 0.35378$

Descriptions.

$AC := \frac{N_1}{N_1 + N_2} \quad BM := \frac{N_3 \cdot AB}{N_3 + N_4}$

$EO := \sqrt{AB^2 + AC^2} \quad KO := BM + \frac{EO - AB}{2}$

$KN := \sqrt{KO \cdot (EO - KO)} \quad MN := KN - \frac{AC}{2}$

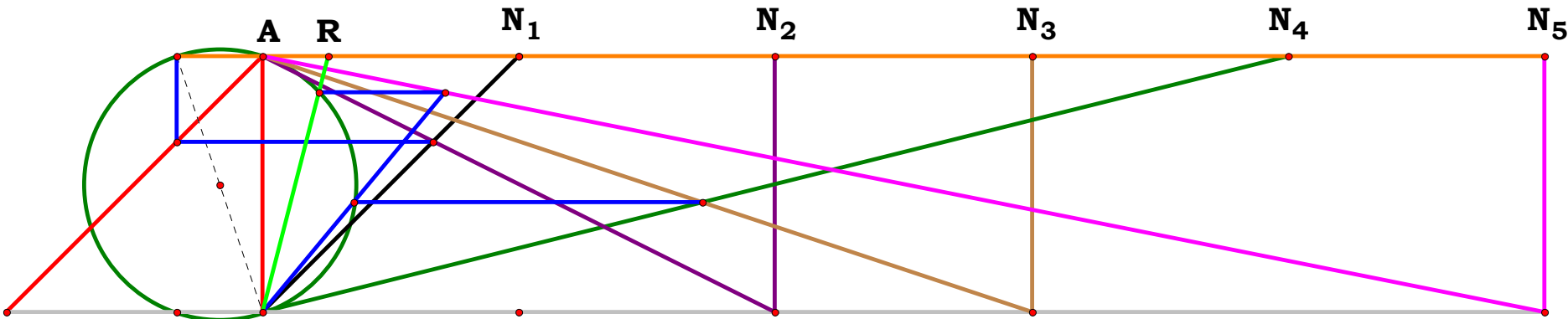
$AP := \frac{MN \cdot AB}{BM} \quad BG := \frac{N_5 \cdot AB}{AP + N_5}$

$FO := BG + \frac{EO - AB}{2} \quad FH := \sqrt{FO \cdot (EO - FO)}$

$GH := FH - \frac{AC}{2} \quad R := \frac{GH \cdot AB}{BG}$

$R = 0.353777$

Definitions.



$N_1 = 1.00000$

$N_2 = 2.00000$

$N_3 = 3.00000$

$N_4 = 4.00000$

$N_5 = 5.00000$

$R = 0.25698$

$AB = 1.00000$

$AC = 0.33333$

$BM = 0.42857$

$EO = 1.05409$

$KO = 0.45562$

$KN = 0.52218$

$MN = 0.35552$

$AP = 0.82954$

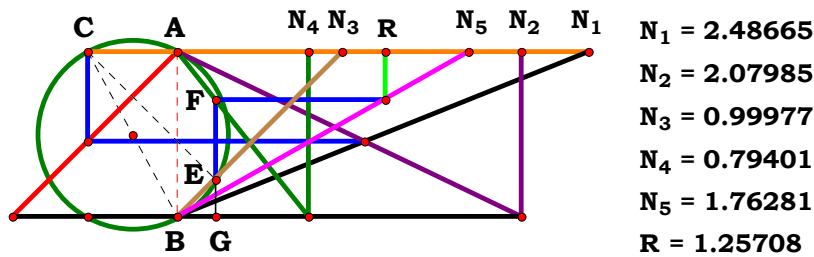
$BG = 0.85770$

$FO = 0.88475$

$FH = 0.38708$

$GH = 0.22041$

$R - \frac{GH \cdot AB}{BG} = 0.00000$



Unit.

$AB := 1$

Given.

$N_1 := 2.48665$

$N_2 := 2.07985$

$N_3 := .99977$

$N_4 := .79401$

$N_5 := 1.76281$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u^3 \cdot (A + B) + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C - D) \cdot (A + B)}{E \cdot (C^2 + N_u^2) \cdot (A + B)} = 1.257081$$

$$Num := \frac{N_u^3 \cdot (A + B) + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C - D) \cdot (A + B)}{\sqrt{\left[N_u^3 \cdot (A + B) + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C - D) \cdot (A + B)\right]^2}}$$

$$Den := \frac{E \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{\left[E \cdot (C^2 + N_u^2) \cdot (A + B)\right]^2}}$$

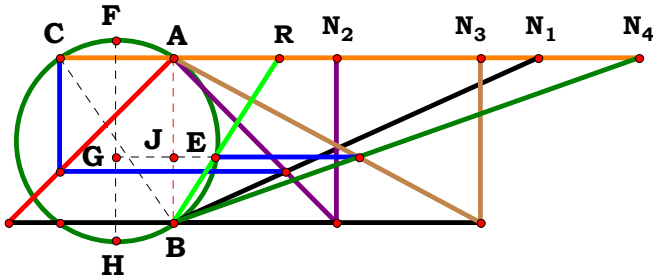
$$L := \frac{Num}{Den}$$

$Num = 1$

$Den = 1$

$L = 1$

$$L - \frac{\left[(A + B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + C \cdot (A + B) \cdot (C - D) \cdot N_u\right] \cdot \sqrt{E^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}}{E \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{\left[(A + B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + C \cdot (A + B) \cdot (C - D) \cdot N_u\right]^2}} = 0$$



N₁ = 2.20577
N₂ = 0.98536
N₃ = 1.86181
N₄ = 2.81833
R = 0.63739

Unit. AB := 1 Given. N₁ := 2.20577 N₂ := .98536 N₃ := 1.86181
N₄ := 2.81833

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)}{2 \cdot D \cdot (A + B)} = 0.637387$$

$$Num := \frac{\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)}{\sqrt{\left[\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)\right]^2}}$$

$$Den := \frac{2 \cdot D \cdot (A + B)}{\sqrt{\left[2 \cdot D \cdot (A + B)\right]^2}} \qquad L := \frac{Num}{Den}$$

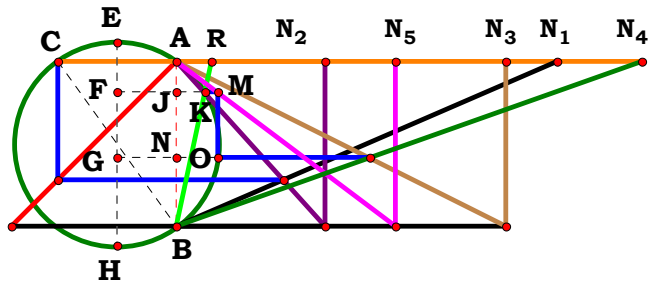
$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\sqrt{D^2 \cdot (A + B)^2} \cdot \left[\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)\right]}{D \cdot (A + B) \cdot \sqrt{\left[\sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C + D)\right]^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 2.30262
N₂ := .89818

N₃ := 1.99741
N₄ := 2.81833
N₅ := 1.32695



N₁ = 2.30262
N₂ = 0.89818
N₃ = 1.99741
N₄ = 2.81833
N₅ = 1.32695
R = 0.21169

Descriptions.

$AC := \frac{N_1}{N_1 + N_2}$ $EH := \sqrt{AB^2 + AC^2}$

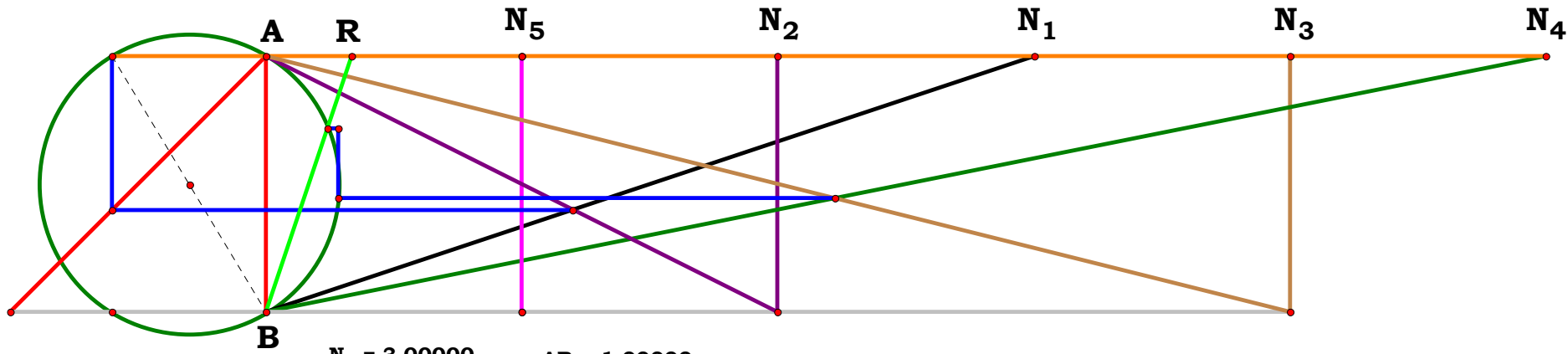
$BN := \frac{AB \cdot N_3}{N_3 + N_4}$ $GH := BN + \frac{EH - AB}{2}$

$GO := \sqrt{GH \cdot (EH - GH)}$ $NO := GO - \frac{AC}{2}$

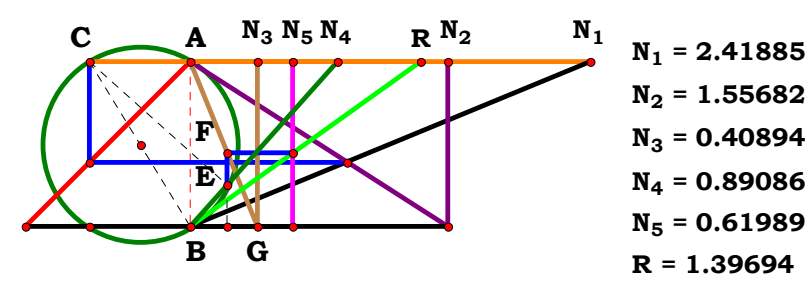
$BK := \frac{AB \cdot (N_5 - NO)}{N_5}$ $FH := BK + \frac{EH - AB}{2}$

$FK := \sqrt{FH \cdot (EH - FH)}$ $JK := FK - \frac{AC}{2}$

$R := \frac{JK \cdot AB}{BK}$ **R = 0.211686**



N ₁ = 3.00000	AB = 1.00000	NO = 0.28044	$R - \frac{JK \cdot AB}{BK} = 0.00000$
N ₂ = 2.00000	AC = 0.60000	BK = 0.71956	
N ₃ = 4.00000	EH = 1.16619	FH = 0.80265	
N ₄ = 5.00000	BN = 0.44444	FK = 0.54018	
N ₅ = 1.00000	GH = 0.52754	JK = 0.24018	
R = 0.33379	GO = 0.58044		



Unit. $AB := 1$ Given. $N_1 := 2.41885$ $N_2 := 1.55682$ $N_3 := .40894$
 $N_4 := .89086$ $N_5 := .61989$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{E \cdot \left[(D^2 - C \cdot D + N_u^2) \cdot (A + B) + B \cdot C \cdot N_u \right]} = 1.396942$$

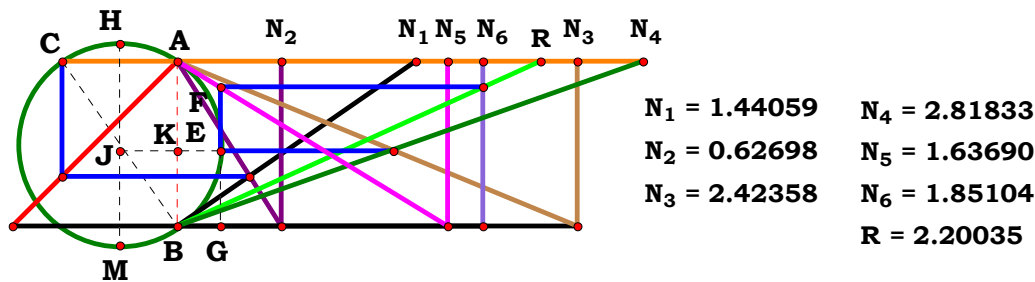
$$Num := \frac{N_u \cdot (D^2 + N_u^2) \cdot (A + B)}{\sqrt{\left[N_u \cdot (D^2 + N_u^2) \cdot (A + B) \right]^2}}$$

$$Den := \frac{E \cdot \left[(D^2 - C \cdot D + N_u^2) \cdot (A + B) + B \cdot C \cdot N_u \right]}{\sqrt{\left[E \cdot \left[(D^2 - C \cdot D + N_u^2) \cdot (A + B) + B \cdot C \cdot N_u \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{E^2 \cdot \left[(A + B) \cdot (D^2 - C \cdot D + N_u^2) + B \cdot C \cdot N_u \right]^2} \cdot (D^2 + N_u^2) \cdot (A + B)}{E \cdot \left[(A + B) \cdot (D^2 - C \cdot D + N_u^2) + B \cdot C \cdot N_u \right] \cdot \sqrt{N_u^2 \cdot (D^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 1.44059$

$N_2 := .62698$

$N_3 := 2.42358$

$N_4 := 2.81833$

$N_5 := 1.63690$

$N_6 := 1.85104$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot N_u^2 \cdot (A + B) \cdot (C + D)}{F \cdot \left[(C + D) \cdot \left[B \cdot E + 2 \cdot N_u \cdot (A + B) \right] - E \cdot \sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} \right]} = 2.200343$$

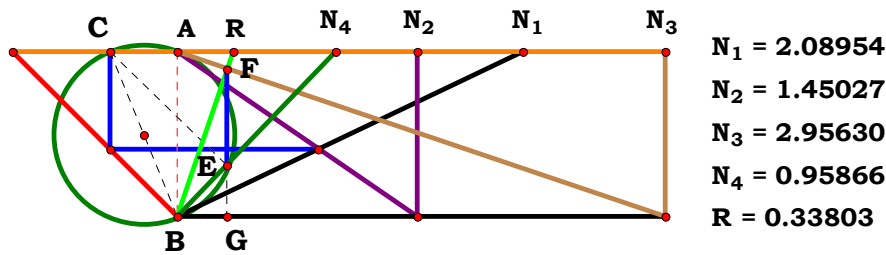
$$Num := \frac{2 \cdot N_u^2 \cdot (A + B) \cdot (C + D)}{\sqrt{\left[2 \cdot N_u^2 \cdot (A + B) \cdot (C + D) \right]^2}}$$

$$Den := \frac{F \cdot \left[(C + D) \cdot \left[B \cdot E + 2 \cdot N_u \cdot (A + B) \right] - E \cdot \sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} \right]}{\sqrt{\left[F \cdot \left[(C + D) \cdot \left[B \cdot E + 2 \cdot N_u \cdot (A + B) \right] - E \cdot \sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u^2 \cdot \sqrt{F^2 \cdot \left[(C + D) \cdot \left[2 \cdot N_u \cdot (A + B) + B \cdot E \right] - E \cdot \sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} \right]^2 \cdot (A + B) \cdot (C + D)}}{F \cdot \left[(C + D) \cdot \left[2 \cdot N_u \cdot (A + B) + B \cdot E \right] - E \cdot \sqrt{B^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} \right] \cdot \sqrt{N_u^4 \cdot (A + B)^2 \cdot (C + D)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.08954$ $N_2 := 1.45027$ $N_3 := 2.95630$
 $N_4 := .95866$

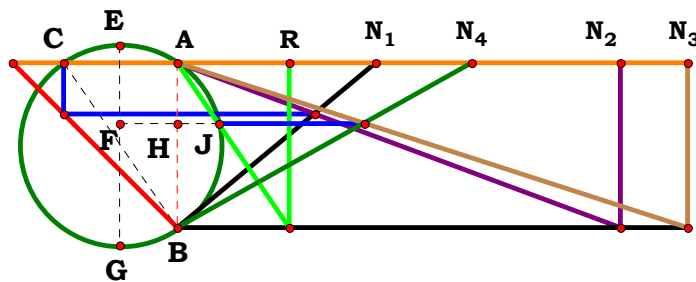
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{N_u \cdot [D \cdot (A + B) - A \cdot N_u]}{(D^2 - C \cdot D + N_u^2) \cdot (A + B) + A \cdot C \cdot N_u} = 0.338032 \quad \text{Num} := \frac{N_u \cdot [D \cdot (A + B) - A \cdot N_u]}{\sqrt{[N_u \cdot [D \cdot (A + B) - A \cdot N_u]]^2}}$$
$$\text{Den} := \frac{(D^2 - C \cdot D + N_u^2) \cdot (A + B) + A \cdot C \cdot N_u}{\sqrt{[(D^2 - C \cdot D + N_u^2) \cdot (A + B) + A \cdot C \cdot N_u]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$

$$L - \frac{N_u \cdot [D \cdot (A + B) - A \cdot N_u] \cdot \sqrt{[(A + B) \cdot (D^2 - C \cdot D + N_u^2) + A \cdot C \cdot N_u]^2}}{\sqrt{N_u^2 \cdot [D \cdot (A + B) - A \cdot N_u]^2 \cdot [(A + B) \cdot (D^2 - C \cdot D + N_u^2) + A \cdot C \cdot N_u]}} = 0$$



N₁ = 1.19844
N₂ = 2.68037
N₃ = 3.09190
N₄ = 1.78196
R = 0.67615

Unit. AB := 1 Given. N₁ := 1.19844 N₂ := 2.68037 N₃ := 3.09190
N₄ := 1.78196

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

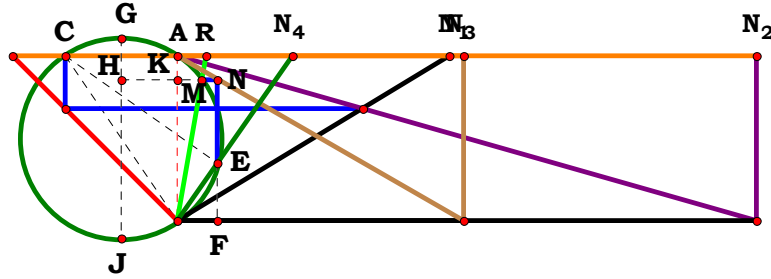
$$\frac{\sqrt{A^2 \cdot C^2 + 6 \cdot A^2 \cdot C \cdot D + A^2 \cdot D^2 + 8 \cdot A \cdot B \cdot C \cdot D + 4 \cdot B^2 \cdot C \cdot D - A \cdot (C + D)}}{2 \cdot C \cdot (A + B)} = 0.676144$$

$$\text{Num} := \frac{\sqrt{A^2 \cdot C^2 + 6 \cdot A^2 \cdot C \cdot D + A^2 \cdot D^2 + 8 \cdot A \cdot B \cdot C \cdot D + 4 \cdot B^2 \cdot C \cdot D - A \cdot (C + D)}}{\sqrt{\left[\sqrt{A^2 \cdot C^2 + 6 \cdot A^2 \cdot C \cdot D + A^2 \cdot D^2 + 8 \cdot A \cdot B \cdot C \cdot D + 4 \cdot B^2 \cdot C \cdot D - A \cdot (C + D)}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot C \cdot (A + B)}{\sqrt{\left[2 \cdot C \cdot (A + B)\right]^2}} \qquad \text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\text{L} - \frac{\sqrt{C^2 \cdot (A + B)^2} \cdot \left[\sqrt{A^2 \cdot C^2 + 6 \cdot A^2 \cdot C \cdot D + A^2 \cdot D^2 + 8 \cdot A \cdot B \cdot C \cdot D + 4 \cdot B^2 \cdot C \cdot D - A \cdot (C + D)}\right]}{C \cdot (A + B) \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + 6 \cdot A^2 \cdot C \cdot D + A^2 \cdot D^2 + 8 \cdot A \cdot B \cdot C \cdot D + 4 \cdot B^2 \cdot C \cdot D - A \cdot (C + D)}\right]^2}} = 0$$



$N_1 = 1.64399$
 $N_2 = 3.50366$
 $N_3 = 1.73589$
 $N_4 = 0.69715$
 $R = 0.17156$

Unit. $AB := 1$ Given. $N_1 := 1.64399$ $N_2 := 3.50366$ $N_3 := 1.73589$

$N_4 := .69715$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{A \cdot (D^2 + N_u^2) - \sqrt{A^2 \cdot (D^2 + N_u^2)^2 + 4 \cdot C \cdot [D \cdot (A + B) - A \cdot N_u] \cdot [D^2 \cdot (A + B) - C \cdot [D \cdot (A + B) - A \cdot N_u] + N_u^2 \cdot (A + B)]}}{2 \cdot [C \cdot (A \cdot D + B \cdot D - A \cdot N_u) - (D^2 + N_u^2) \cdot (A + B)]} = 0.171558$$

$$\text{Num} := \frac{A \cdot (D^2 + N_u^2) - \sqrt{A^2 \cdot (D^2 + N_u^2)^2 + 4 \cdot C \cdot [D \cdot (A + B) - A \cdot N_u] \cdot [D^2 \cdot (A + B) - C \cdot [D \cdot (A + B) - A \cdot N_u] + N_u^2 \cdot (A + B)]}}{\sqrt{\left[A \cdot (D^2 + N_u^2) - \sqrt{A^2 \cdot (D^2 + N_u^2)^2 + 4 \cdot C \cdot [D \cdot (A + B) - A \cdot N_u] \cdot [D^2 \cdot (A + B) - C \cdot [D \cdot (A + B) - A \cdot N_u] + N_u^2 \cdot (A + B)]} \right]^2}}$$

$$\text{Den} := \frac{2 \cdot [C \cdot (A \cdot D + B \cdot D - A \cdot N_u) - (D^2 + N_u^2) \cdot (A + B)]}{\sqrt{\left[2 \cdot [C \cdot (A \cdot D + B \cdot D - A \cdot N_u) - (D^2 + N_u^2) \cdot (A + B)] \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Num = -1 Den = -1 L = 1

$$L - \frac{\sqrt{\left[2 \cdot C \cdot (A \cdot D + B \cdot D - A \cdot N_u) - 2 \cdot (D^2 + N_u^2) \cdot (A + B) \right]^2 \cdot \left[A \cdot (D^2 + N_u^2) - \sqrt{A^2 \cdot (D^2 + N_u^2)^2 + 4 \cdot C \cdot [D \cdot (A + B) - A \cdot N_u] \cdot [D^2 \cdot (A + B) - C \cdot [D \cdot (A + B) - A \cdot N_u] + N_u^2 \cdot (A + B)]} \right]}}{\left[2 \cdot C \cdot (A \cdot D + B \cdot D - A \cdot N_u) - 2 \cdot (D^2 + N_u^2) \cdot (A + B) \right] \cdot \sqrt{\left[A \cdot (D^2 + N_u^2) - \sqrt{A^2 \cdot (D^2 + N_u^2)^2 + 4 \cdot C \cdot [D \cdot (A + B) - A \cdot N_u] \cdot [D^2 \cdot (A + B) - C \cdot [D \cdot (A + B) - A \cdot N_u] + N_u^2 \cdot (A + B)]} \right]^2}} = 0$$



4RST3AB4R3

Unit.

$AB := 1$

Given.

$N_1 := 1.75053$

$N_2 := 4.14292$

$N_3 := 1.45500$

$N_4 := 2.51808$

$N_5 := 2.06307$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$JN := \sqrt{AB^2 + AC^2} \quad JM := JN - \left(BP + \frac{JN - AB}{2} \right)$$

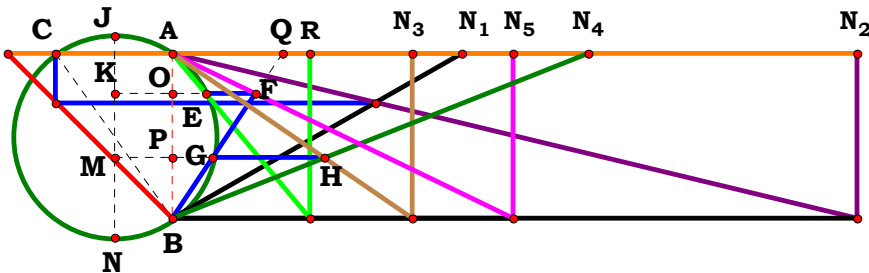
$$GM := \sqrt{JM \cdot (JN - JM)} \quad PG := GM - \frac{AC}{2}$$

$$AQ := \frac{PG \cdot AB}{BP} \quad AO := \frac{AB \cdot AQ}{AQ + N_5}$$

$$JK := AO + \frac{JN - AB}{2} \quad EK := \sqrt{JK \cdot (JN - JK)}$$

$$EO := EK - \frac{AC}{2} \quad R := \frac{EO \cdot AB}{AO}$$

$R = 0.832823$



$N_1 = 1.75053$

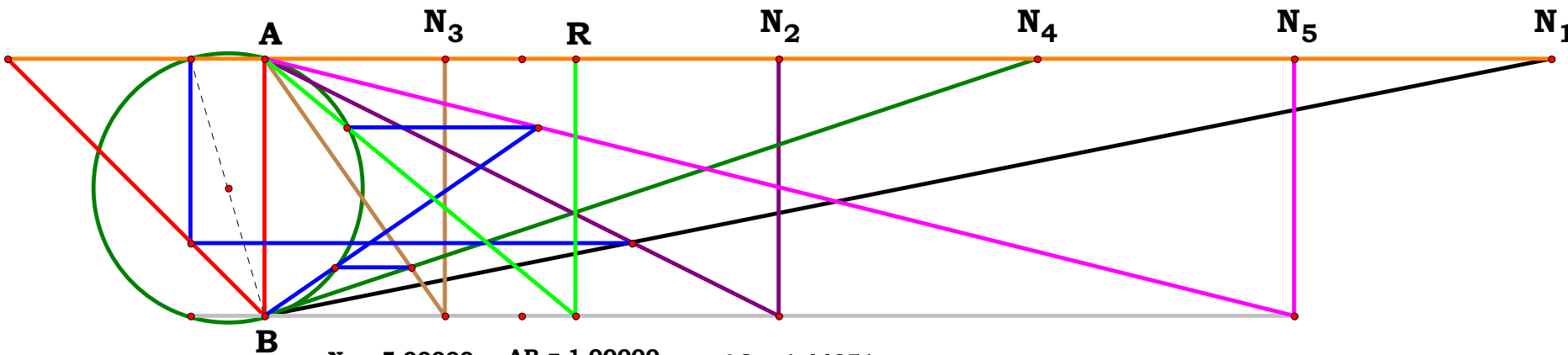
$N_2 = 4.14292$

$N_3 = 1.45500$

$N_4 = 2.51808$

$N_5 = 2.06307$

$R = 0.83282$



$N_1 = 5.00000$

$N_2 = 2.00000$

$N_3 = 0.70000$

$N_4 = 3.00000$

$N_5 = 4.00000$

$R = 1.20913$

$AB = 1.00000$

$AC = 0.28571$

$BP = 0.18919$

$JN = 1.04002$

$JM = 0.83082$

$GM = 0.41690$

$PG = 0.27404$

$AQ = 1.44851$

$AO = 0.26585$

$JK = 0.28586$

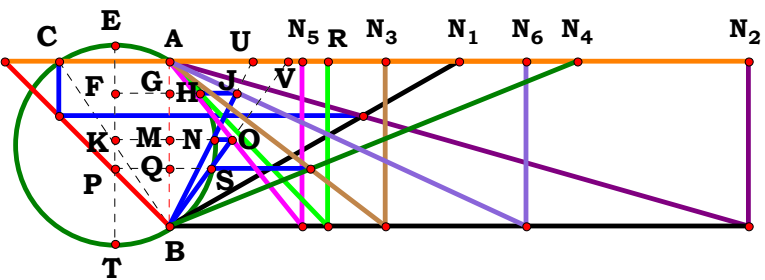
$EK = 0.46431$

$EO = 0.32145$

$R - \frac{EO \cdot AB}{AO} = 0.00000$



Unit.
AB := 1
 Given.
N₁ := 1.75053 **N₃** := 1.30972
N₂ := 3.50366 **N₄** := 2.46965
N₅ := .80392
N₆ := 2.15993



N₁ = 1.75053 **N₅** = 0.80392
N₂ = 3.50366 **N₆** = 2.15993
N₃ = 1.30972 **R** = 0.95638
N₄ = 2.46965

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BQ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ET := \sqrt{AB^2 + AC^2} \quad EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$$

$$PS := \sqrt{EP \cdot (ET - EP)} \quad QS := PS - \frac{AC}{2}$$

$$AV := \frac{QS \cdot AB}{BQ}$$

$$BM := \frac{AB \cdot N_5}{AV + N_5}$$

$$KT := BM + \frac{ET - AB}{2}$$

$$KN := \sqrt{KT \cdot (ET - KT)}$$

$$MN := KN - \frac{AC}{2}$$

$$AU := \frac{MN \cdot AB}{BM}$$

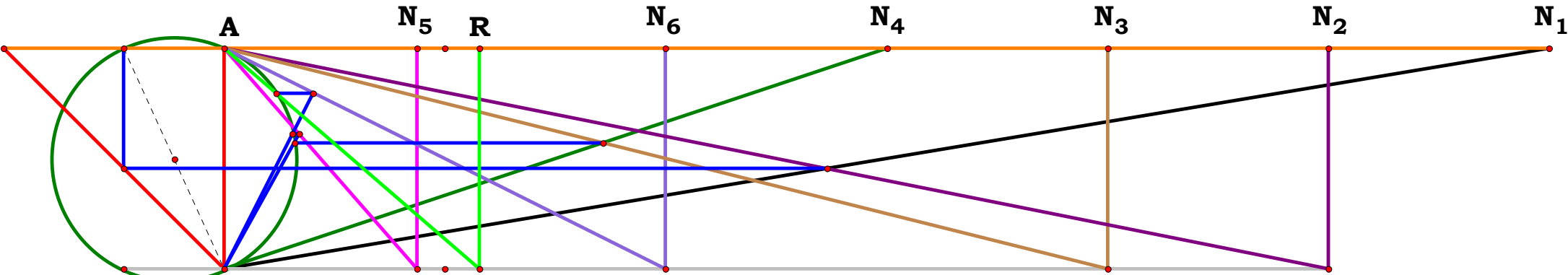
$$BG := \frac{AB \cdot N_6}{AU + N_6} \quad AG := AB - BG$$

$$EF := AG + \frac{ET - AB}{2} \quad FH := \sqrt{EF \cdot (ET - EF)}$$

$$GH := FH - \frac{AC}{2} \quad R := \frac{GH \cdot AB}{AG}$$

R = 0.956384

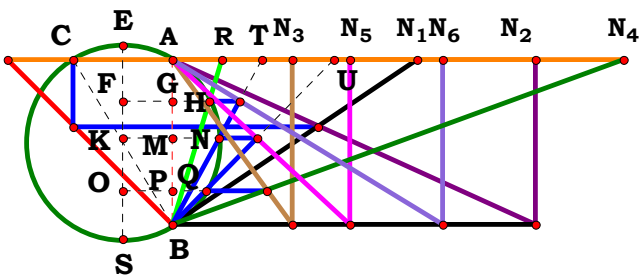
Definitions.



N₁ = 6.00000	AB = 1.00000	AV = 0.55526	AG = 0.20244
N₂ = 5.00000	AC = 0.45455	BM = 0.61164	EF = 0.25166
N₃ = 4.00000	BQ = 0.57143	KT = 0.66087	FH = 0.46164
N₄ = 3.00000	ET = 1.09846	KN = 0.53776	GH = 0.23436
N₅ = 0.87451	EP = 0.47780	MN = 0.31049	$R - \frac{GH \cdot AB}{AG} = 0.00000$
N₆ = 2.00000	PS = 0.54456	AU = 0.50763	
R = 1.15772	QS = 0.31729	BG = 0.79756	



Unit.
AB := 1
 Given.
N₁ := 1.47933 **N₅** := 1.07512
N₂ := 2.19608 **N₆** := 1.63690
N₃ := .72857
N₄ := 2.73116



N₁ = 1.47933 **N₅** = 1.07512
N₂ = 2.19608 **N₆** = 1.63690
N₃ = 0.72857 **R** = 0.30175
N₄ = 2.73116

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ES := \sqrt{AB^2 + AC^2} \quad OS := BP + \frac{ES - AB}{2}$$

$$OQ := \sqrt{OS \cdot (ES - OS)} \quad PQ := OQ - \frac{AC}{2}$$

$$AU := \frac{PQ \cdot AB}{BP}$$

$$BM := \frac{AB \cdot N_5}{N_5 + AU}$$

$$KS := BM + \frac{ES - AB}{2}$$

$$KN := \sqrt{KS \cdot (ES - KS)}$$

$$MN := KN - \frac{AC}{2}$$

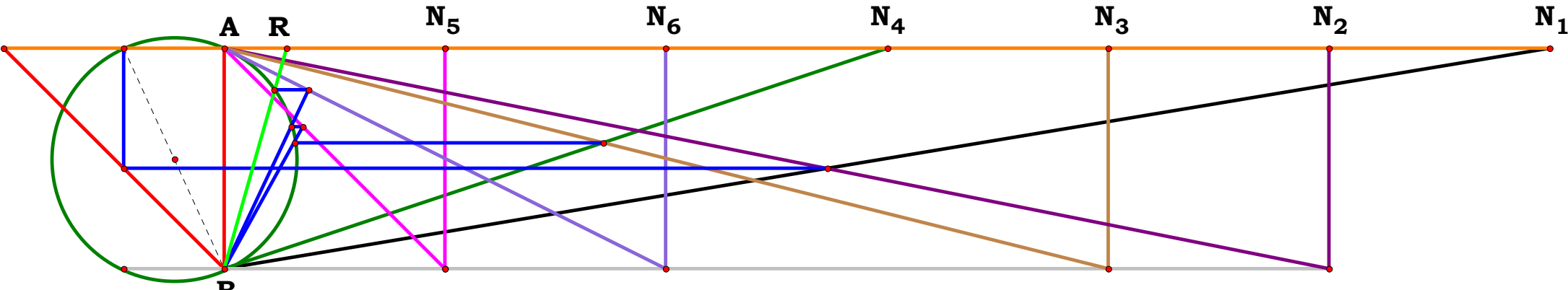
$$AT := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{N_6 \cdot AB}{N_6 + AT} \quad FS := BG + \frac{ES - AB}{2}$$

$$FH := \sqrt{FS \cdot (ES - FS)} \quad GH := FH - \frac{AC}{2}$$

$$R := \frac{GH \cdot AB}{BG} \quad R = 0.301751$$

Definitions.



N₁ = 6.00000	AB = 1.00000	AU = 0.55526	FS = 0.85853
N₂ = 5.00000	AC = 0.45455	BM = 0.64298	FH = 0.45386
N₃ = 4.00000	BP = 0.57143	KS = 0.69221	GH = 0.22659
N₄ = 3.00000	ES = 1.09846	KN = 0.53029	R · $\frac{GH \cdot AB}{BG}$ = 0.00000
N₅ = 1.00000	OS = 0.62066	MN = 0.30302	
N₆ = 2.00000	OQ = 0.54456	AT = 0.47127	
R = 0.27998	PQ = 0.31729	BG = 0.80930	



Unit.

$AB := 1$

Given.

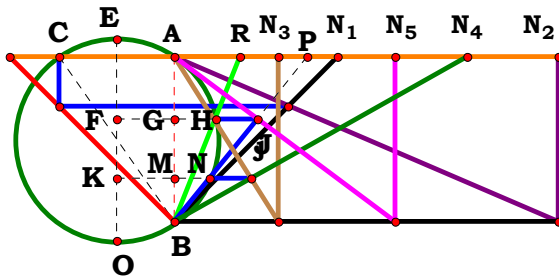
$N_1 := .98536$

$N_2 := 2.3220$

$N_3 := .63171$

$N_4 := 1.77227$

$N_5 := 1.33664$



$N_1 = 0.98536$

$N_2 = 2.32200$

$N_3 = 0.63171$

$N_4 = 1.77227$

$N_5 = 1.33664$

$R = 0.39643$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad BM := \frac{N_3 \cdot AB}{N_3 + N_4}$$

$$EO := \sqrt{AB^2 + AC^2} \quad KO := BM + \frac{EO - AB}{2}$$

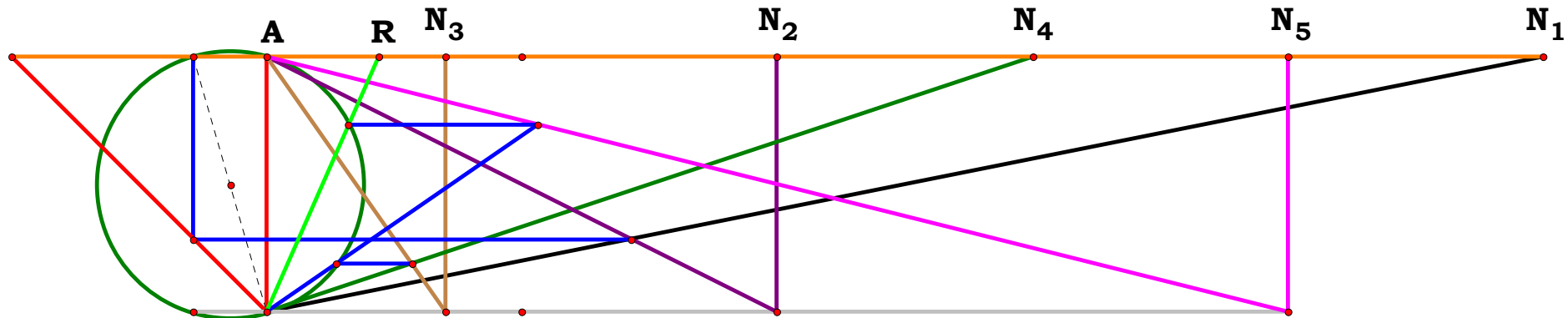
$$KN := \sqrt{KO \cdot (EO - KO)} \quad MN := KN - \frac{AC}{2}$$

$$AP := \frac{MN \cdot AB}{BM} \quad BG := \frac{N_5 \cdot AB}{AP + N_5}$$

$$FO := BG + \frac{EO - AB}{2} \quad FH := \sqrt{FO \cdot (EO - FO)}$$

$$GH := FH - \frac{AC}{2} \quad R := \frac{GH \cdot AB}{BG}$$

$R = 0.396433$



$N_1 = 5.00000$

$N_2 = 2.00000$

$N_3 = 0.70000$

$N_4 = 3.00000$

$N_5 = 4.00000$

$R = 0.43786$

$AB = 1.00000$

$AC = 0.28571$

$BM = 0.18919$

$EO = 1.04002$

$KO = 0.20920$

$KN = 0.41690$

$MN = 0.27404$

$AP = 1.44851$

$BG = 0.73415$

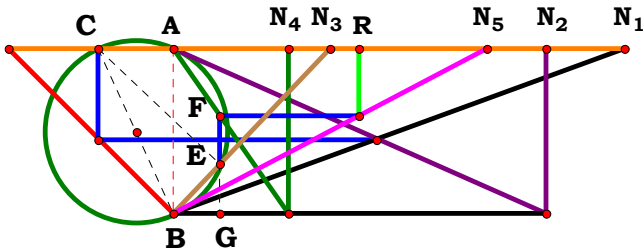
$FO = 0.75415$

$FH = 0.46431$

$GH = 0.32145$

$R - \frac{GH \cdot AB}{BG} = 0.00000$

Definitions.



N₁ = 2.72880
N₂ = 2.25419
N₃ = 0.95134
N₄ = 0.69715
N₅ = 1.89841
R = 1.12379

Unit. AB := 1 Given. N₁ := 2.72880 N₂ := 2.25419 N₃ := .95134

N₄ := .69715 N₅ := 1.89841

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot \left(C^2 - D \cdot C + N_u^2\right) \cdot (A + B) + A \cdot D \cdot N_u^2}{E \cdot \left(C^2 + N_u^2\right) \cdot (A + B)} = 1.123786$$

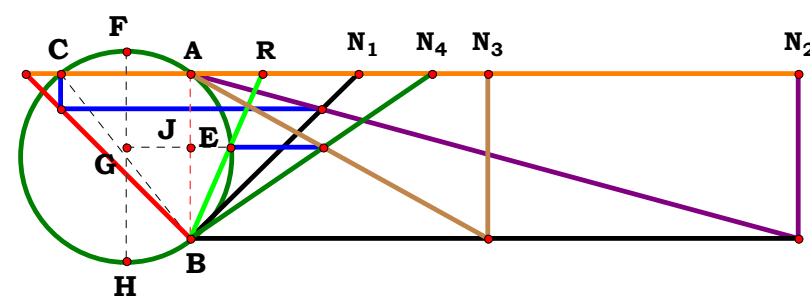
$$Num := \frac{N_u \cdot \left(C^2 - D \cdot C + N_u^2\right) \cdot (A + B) + A \cdot D \cdot N_u^2}{\sqrt{\left[N_u \cdot \left(C^2 - D \cdot C + N_u^2\right) \cdot (A + B) + A \cdot D \cdot N_u^2\right]^2}}$$

$$Den := \frac{E \cdot \left(C^2 + N_u^2\right) \cdot (A + B)}{\sqrt{\left[E \cdot \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\left[N_u \cdot (A + B) \cdot \left(C^2 - D \cdot C + N_u^2\right) + A \cdot D \cdot N_u^2\right] \cdot \sqrt{E^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2}}{E \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \sqrt{\left[N_u \cdot (A + B) \cdot \left(C^2 - D \cdot C + N_u^2\right) + A \cdot D \cdot N_u^2\right]^2}} = 0$$



$N_1 = 1.01441$
 $N_2 = 3.67800$
 $N_3 = 1.80369$
 $N_4 = 1.46232$
 $R = 0.43680$

Unit. **$AB := 1$** **Given.** **$N_1 := 1.01441$** **$N_2 := 3.67800$** **$N_3 := 1.8036$**

$N_4 := 1.46232$

$N_u := 3$ **$A := \frac{N_u}{N_1}$** **$B := \frac{N_u}{N_2}$** **$C := \frac{N_u}{N_3}$** **$D := \frac{N_u}{N_4}$**

Descriptions.

$$\frac{\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C + D)}{2 \cdot D \cdot (A + B)} = 0.436811 \qquad \text{Num} := \frac{\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C + D)}{\sqrt{\left[\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C + D)\right]^2}}$$

$$\text{Den} := \frac{2 \cdot D \cdot (A + B)}{\sqrt{\left[2 \cdot D \cdot (A + B)\right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{\sqrt{D^2 \cdot (A + B)^2} \cdot \left[\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C + D)\right]}{D \cdot (A + B) \cdot \sqrt{\left[\sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C + D)\right]^2}} = 0$$



Unit.

$AB := 1$

Given.

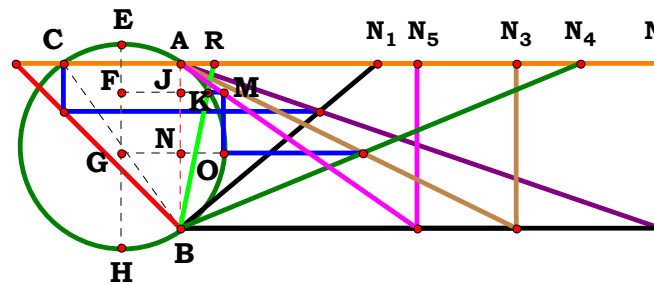
$N_1 := 1.18876$

$N_2 := 2.90314$

$N_3 := 2.03615$

$N_4 := 2.42122$

$N_5 := 1.4335$



$N_1 = 1.18876$

$N_2 = 2.90314$

$N_3 = 2.03615$

$N_4 = 2.42122$

$N_5 = 1.43350$

$R = 0.20423$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

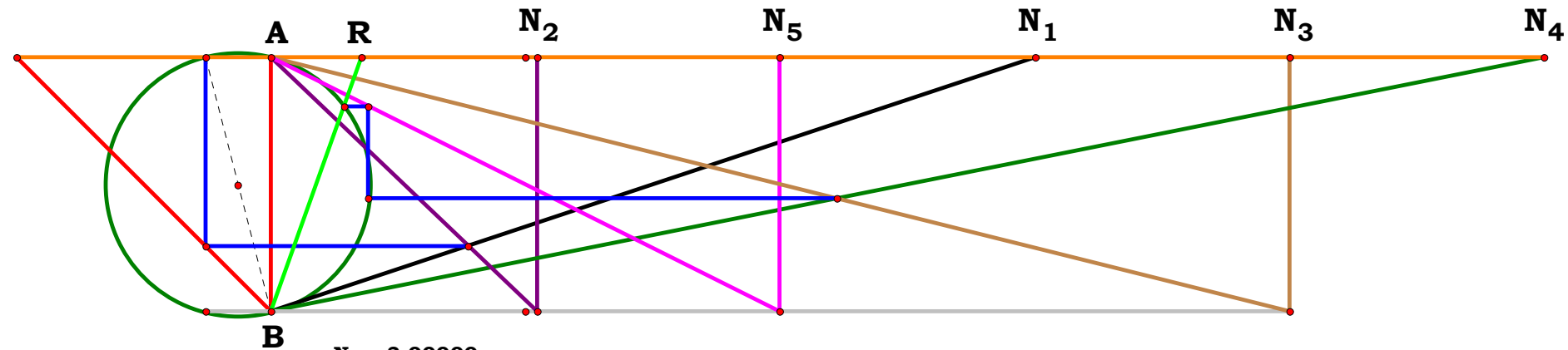
$$BN := \frac{AB \cdot N_3}{N_3 + N_4} \quad GH := BN + \frac{EH - AB}{2}$$

$$GO := \sqrt{GH \cdot (EH - GH)} \quad NO := GO - \frac{AC}{2}$$

$$BK := \frac{AB \cdot (N_5 - NO)}{N_5} \quad FH := BK + \frac{EH - AB}{2}$$

$$FK := \sqrt{FH \cdot (EH - FH)} \quad JK := FK - \frac{AC}{2}$$

$$R := \frac{JK \cdot AB}{BK} \quad R = 0.204231$$



$N_1 = 3.00000$

$N_2 = 1.04706$

$N_3 = 4.00000$

$N_4 = 5.00000$

$N_5 = 2.00000$

$R = 0.35306$

$AB = 1.00000$

$AC = 0.25872$

$EH = 1.03293$

$BN = 0.44444$

$GH = 0.46091$

$GO = 0.51347$

$NO = 0.38411$

$BK = 0.80795$

$FH = 0.82441$

$FK = 0.41461$

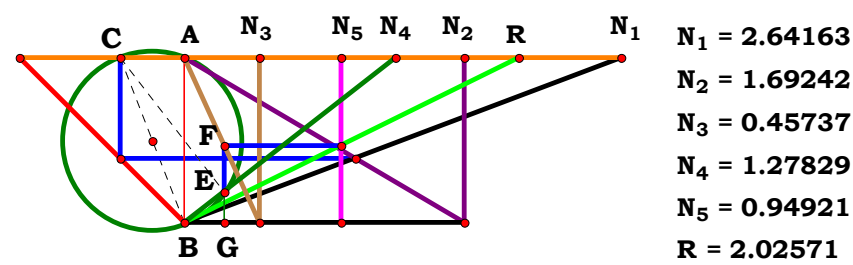
$JK = 0.28525$

$R \cdot \frac{JK \cdot AB}{BK} = 0.00000$

Definitions.

$$R - \frac{N_5 \cdot \sqrt{(N_3 + N_4)^2} \cdot \left[\sqrt{(N_3 + N_4) \cdot \left[2 \cdot \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} \cdot \sqrt{(N_3 + N_4)^2 \cdot (AC + N_5) + 4 \cdot N_3^2} \dots \right]} - AC \cdot \sqrt{N_5^2 \cdot (N_3 + N_4)^3} \right]}{\sqrt{N_5^2 \cdot (N_3 + N_4)^3} \cdot \left[AC \cdot \sqrt{(N_3 + N_4)^2} - \sqrt{AC^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} + 2 \cdot N_5 \cdot \sqrt{(N_3 + N_4)^2} \right]} = 0$$

$$R - \frac{N_5 \cdot \sqrt{(N_3 + N_4)^2} \cdot \left[\sqrt{(N_3 + N_4) \cdot \left[2 \cdot \sqrt{\left(\frac{N_2}{N_1 + N_2} \right)^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} \cdot \sqrt{(N_3 + N_4)^2 \cdot \left(\frac{N_2}{N_1 + N_2} + N_5 \right) + 4 \cdot N_3^2} \dots \right]} - \frac{N_2}{N_1 + N_2} \cdot \sqrt{N_5^2 \cdot (N_3 + N_4)^3} \right]}{\sqrt{N_5^2 \cdot (N_3 + N_4)^3} \cdot \left[\frac{N_2}{N_1 + N_2} \cdot \sqrt{(N_3 + N_4)^2} - \sqrt{\left(\frac{N_2}{N_1 + N_2} \right)^2 \cdot (N_3 + N_4)^2 + 4 \cdot N_3 \cdot N_4} + 2 \cdot N_5 \cdot \sqrt{(N_3 + N_4)^2} \right]} = 0$$



Unit.
 $AB := 1$
Given.
 $N_1 := 2.64163$
 $N_2 := 1.69242$
 $N_3 := .45737$
 $N_4 := 1.27829$
 $N_5 := .94921$

$N_u := 3$
 $A := \frac{N_u}{N_1}$
 $B := \frac{N_u}{N_2}$
 $C := \frac{N_u}{N_3}$
 $D := \frac{N_u}{N_4}$
 $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot \left(D^2 + N_u^2 \right) \cdot (A + B)}{E \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u + -D \cdot (C - D) \cdot (A + B) \right]} = 2.025711$$

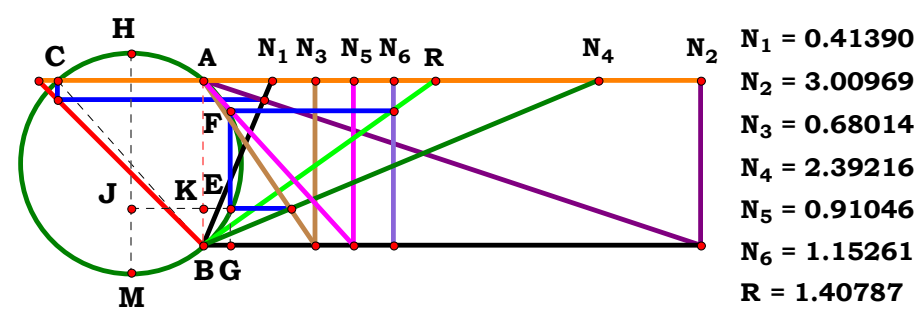
$$Num := \frac{N_u \cdot \left(D^2 + N_u^2 \right) \cdot (A + B)}{\sqrt{\left[N_u \cdot \left(D^2 + N_u^2 \right) \cdot (A + B) \right]^2}}$$

$$Den := \frac{E \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u + -D \cdot (C - D) \cdot (A + B) \right]}{\sqrt{\left[E \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u + -D \cdot (C - D) \cdot (A + B) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$
 $Den = 1$
 $L = 1$

$$L - \frac{N_u \cdot \sqrt{E^2 \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u - D \cdot (A + B) \cdot (C - D) \right]^2} \cdot \left(D^2 + N_u^2 \right) \cdot (A + B)}{E \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u - D \cdot (A + B) \cdot (C - D) \right] \cdot \sqrt{N_u^2 \cdot \left(D^2 + N_u^2 \right)^2 \cdot (A + B)^2}} = 0$$



$$\begin{array}{llllll} \text{Unit.} & AB := 1 & \text{Given.} & N_1 := .41390 & N_2 := 3.00969 & N_3 := .68014 \\ & & & N_4 := 2.39216 & N_5 := .91046 & N_6 := 1.15261 \\ N_u := 3 & A := \frac{N_u}{N_1} & B := \frac{N_u}{N_2} & C := \frac{N_u}{N_3} & D := \frac{N_u}{N_4} & E := \frac{N_u}{N_5} & F := \frac{N_u}{N_6} \end{array}$$

Descriptions.

$$\frac{2 \cdot N_u^2 \cdot (A + B) \cdot (C + D)}{F \cdot \left[(C + D) \cdot \left[A \cdot E + 2 \cdot N_u \cdot (A + B) \right] - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} \right]} = 1.407873$$

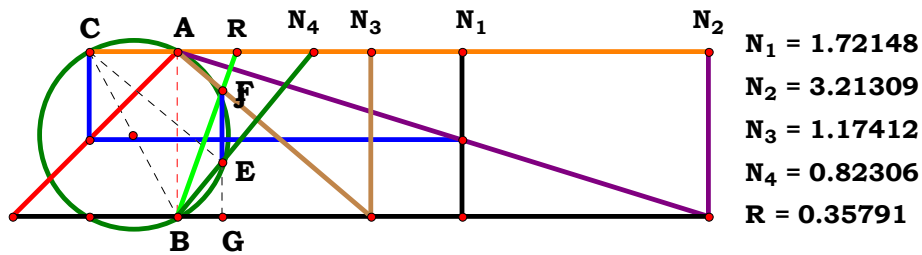
$$\text{Num} := \frac{2 \cdot N_u^2 \cdot (A + B) \cdot (C + D)}{\sqrt{\left[2 \cdot N_u^2 \cdot (A + B) \cdot (C + D) \right]^2}}$$

$$\text{Den} := \frac{F \cdot \left[(C + D) \cdot \left[A \cdot E + 2 \cdot N_u \cdot (A + B) \right] - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} \right]}{\sqrt{\left[F \cdot \left[(C + D) \cdot \left[A \cdot E + 2 \cdot N_u \cdot (A + B) \right] - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} \right] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u^2 \cdot \sqrt{F^2 \cdot \left[(C + D) \cdot \left[2 \cdot N_u \cdot (A + B) + A \cdot E \right] - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} \right]^2 \cdot (A + B) \cdot (C + D)}}{F \cdot \left[(C + D) \cdot \left[2 \cdot N_u \cdot (A + B) + A \cdot E \right] - E \cdot \sqrt{A^2 \cdot (C^2 + D^2) + 2 \cdot C \cdot D \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} \right] \cdot \sqrt{N_u^4 \cdot (A + B)^2 \cdot (C + D)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.72148$ $N_2 := 3.21309$ $N_3 := 1.17412$
 $N_4 := .82306$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (A \cdot D - B \cdot N_u)}{A \cdot D^2 - A \cdot C \cdot D + A \cdot N_u^2 + B \cdot C \cdot N_u} = 0.357913$$

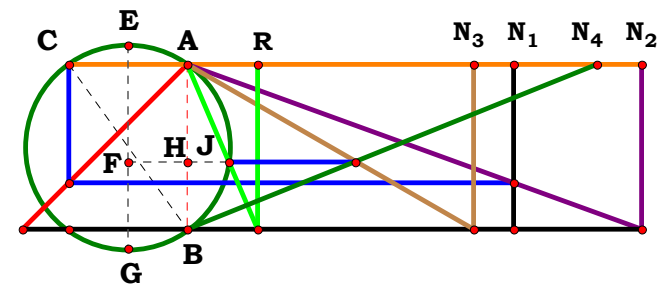
$$Num := \frac{N_u \cdot (A \cdot D - B \cdot N_u)}{\sqrt{[N_u \cdot (A \cdot D - B \cdot N_u)]^2}}$$

$$Den := \frac{A \cdot D^2 - A \cdot C \cdot D + A \cdot N_u^2 + B \cdot C \cdot N_u}{\sqrt{(A \cdot D^2 - A \cdot C \cdot D + A \cdot N_u^2 + B \cdot C \cdot N_u)^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{(A \cdot D^2 - A \cdot C \cdot D + A \cdot N_u^2 + B \cdot C \cdot N_u)^2} \cdot (A \cdot D - B \cdot N_u)}{\sqrt{N_u^2 \cdot (A \cdot D - B \cdot N_u)^2 \cdot (A \cdot D^2 - A \cdot C \cdot D + A \cdot N_u^2 + B \cdot C \cdot N_u)}} = 0$$



N₁ = 1.97331
N₂ = 2.74817
N₃ = 1.73589
N₄ = 2.47933
R = 0.42533

**Unit. AB := 1 Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := 1.73589$
 $N_4 := 2.47933$**

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2 - B \cdot (C + D)}}{2 \cdot A \cdot C} = 0.425332$$

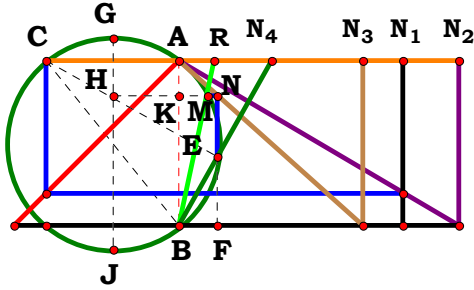
$$\text{Num} := \frac{\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2} - B \cdot (C + D)}{\sqrt{\left[\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2} - B \cdot (C + D) \right]^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot C}{\sqrt{(2 \cdot A \cdot C)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\left[\sqrt{4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D} + \mathbf{B}^2 \cdot \mathbf{C}^2 + 2 \cdot \mathbf{B}^2 \cdot \mathbf{C} \cdot \mathbf{D} + \mathbf{B}^2 \cdot \mathbf{D}^2} - \mathbf{B} \cdot (\mathbf{C} + \mathbf{D}) \right] \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2}}{\mathbf{A} \cdot \mathbf{C} \cdot \sqrt{\left[\sqrt{4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D} + \mathbf{B}^2 \cdot \mathbf{C}^2 + 2 \cdot \mathbf{B}^2 \cdot \mathbf{C} \cdot \mathbf{D} + \mathbf{B}^2 \cdot \mathbf{D}^2} - \mathbf{B} \cdot (\mathbf{C} + \mathbf{D}) \right]^2}} = 0$$



N₁ = 1.35342
 N₂ = 1.69242
 N₃ = 1.11600
 N₄ = 0.56155
 R = 0.21705

Unit. AB := 1 Given. N₁ := 1.35342 N₂ := 1.69242 N₃ := 1.11600

N₄ := .56155

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3} \qquad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{B \cdot \left(D^2 + N_u^2\right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2\right)^2 - 4 \cdot C^2 \cdot \left(A \cdot D - B \cdot N_u\right)^2 + 4 \cdot A \cdot C \cdot \left(D^2 + N_u^2\right) \cdot \left(A \cdot D - B \cdot N_u\right)}}{2 \cdot \left[A \cdot D \cdot (C - D) - N_u \cdot \left(B \cdot C + A \cdot N_u\right)\right]} = 0.217052$$

$$Num := \frac{B \cdot \left(D^2 + N_u^2\right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2\right)^2 - 4 \cdot C^2 \cdot \left(A \cdot D - B \cdot N_u\right)^2 + 4 \cdot A \cdot C \cdot \left(D^2 + N_u^2\right) \cdot \left(A \cdot D - B \cdot N_u\right)}}{\sqrt{\left[B \cdot \left(D^2 + N_u^2\right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2\right)^2 - 4 \cdot C^2 \cdot \left(A \cdot D - B \cdot N_u\right)^2 + 4 \cdot A \cdot C \cdot \left(D^2 + N_u^2\right) \cdot \left(A \cdot D - B \cdot N_u\right)}\right]^2}}$$

$$Den := \frac{2 \cdot \left[A \cdot D \cdot (C - D) - N_u \cdot \left(B \cdot C + A \cdot N_u\right)\right]}{\sqrt{\left[2 \cdot \left[A \cdot D \cdot (C - D) - N_u \cdot \left(B \cdot C + A \cdot N_u\right)\right]\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = -1 \qquad Den = -1 \qquad L = 1$$

$$L - \frac{\left[B \cdot \left(D^2 + N_u^2\right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2\right)^2 - 4 \cdot C^2 \cdot \left(A \cdot D - B \cdot N_u\right)^2 + 4 \cdot A \cdot C \cdot \left(D^2 + N_u^2\right) \cdot \left(A \cdot D - B \cdot N_u\right)}\right] \cdot \sqrt{\left[2 \cdot \left[A \cdot D \cdot (C - D) - N_u \cdot \left(B \cdot C + A \cdot N_u\right)\right]\right]^2}}{\sqrt{\left[B \cdot \left(D^2 + N_u^2\right) - \sqrt{B^2 \cdot \left(D^2 + N_u^2\right)^2 - 4 \cdot C^2 \cdot \left(A \cdot D - B \cdot N_u\right)^2 + 4 \cdot A \cdot C \cdot \left(D^2 + N_u^2\right) \cdot \left(A \cdot D - B \cdot N_u\right)}\right]^2} \cdot \left[2 \cdot \left[A \cdot D \cdot (C - D) - N_u \cdot \left(B \cdot C + A \cdot N_u\right)\right]\right]} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 2.55445$

$N_2 := 2.13797$

$N_3 := 1.07726$

$N_4 := 1.71415$

$N_5 := 1.40444$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$JN := \sqrt{AB^2 + AC^2} \quad JM := JN - \left(BP + \frac{JN - AB}{2} \right)$$

$$GM := \sqrt{JM \cdot (JN - JM)}$$

$$PG := GM - \frac{AC}{2}$$

$$AQ := \frac{PG \cdot AB}{BP}$$

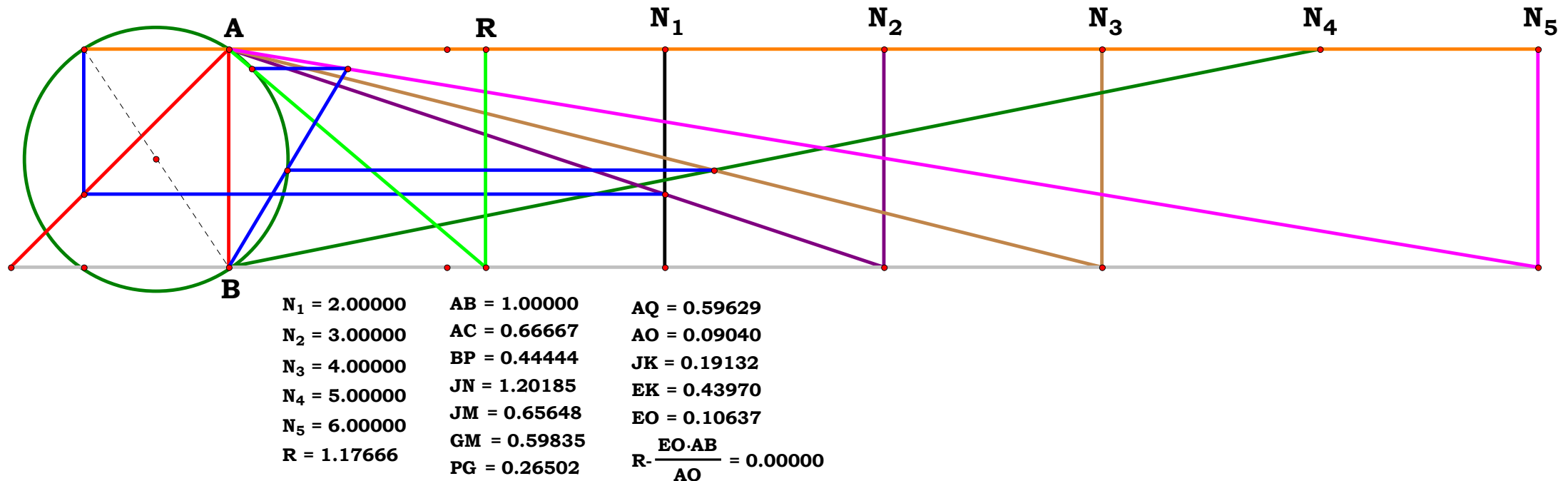
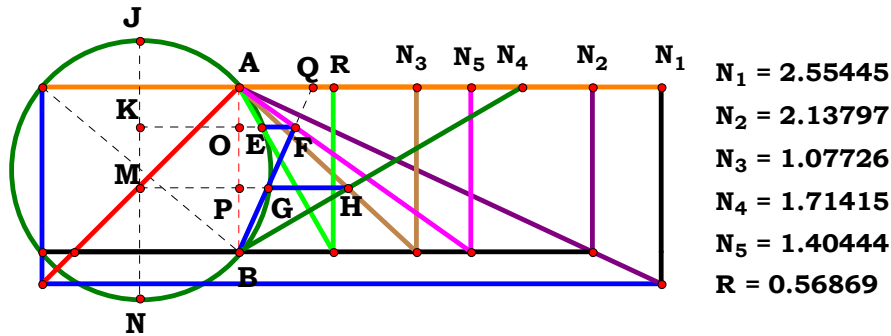
$$AO := \frac{AB \cdot AQ}{AQ + N_5}$$

$$JK := AO + \frac{JN - AB}{2}$$

$$EK := \sqrt{JK \cdot (JN - JK)}$$

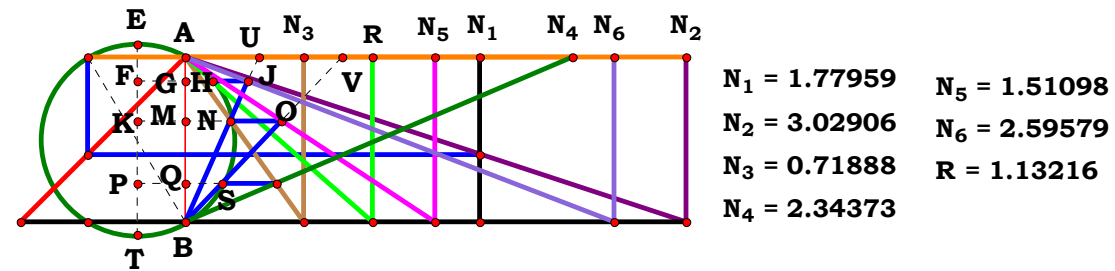
$$EO := EK - \frac{AC}{2} \quad R := \frac{EO \cdot AB}{AO}$$

$$R = 0.568687$$





Unit.
AB := 1
 Given.
N₁ := 1.77959
N₂ := 3.02906
N₃ := .71888
N₄ := 2.34373
N₅ := 1.51098
N₆ := 2.59579



Descriptions.

$$AC := \frac{N_1}{N_2} \quad BQ := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ET := \sqrt{AB^2 + AC^2} \quad EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$$

$$PS := \sqrt{EP \cdot (ET - EP)} \quad QS := PS - \frac{AC}{2}$$

$$AV := \frac{QS \cdot AB}{BQ} \quad BM := \frac{AB \cdot N_5}{AV + N_5}$$

$$KT := BM + \frac{ET - AB}{2}$$

$$KN := \sqrt{KT \cdot (ET - KT)}$$

$$MN := KN - \frac{AC}{2}$$

$$AU := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{AB \cdot N_6}{AU + N_6}$$

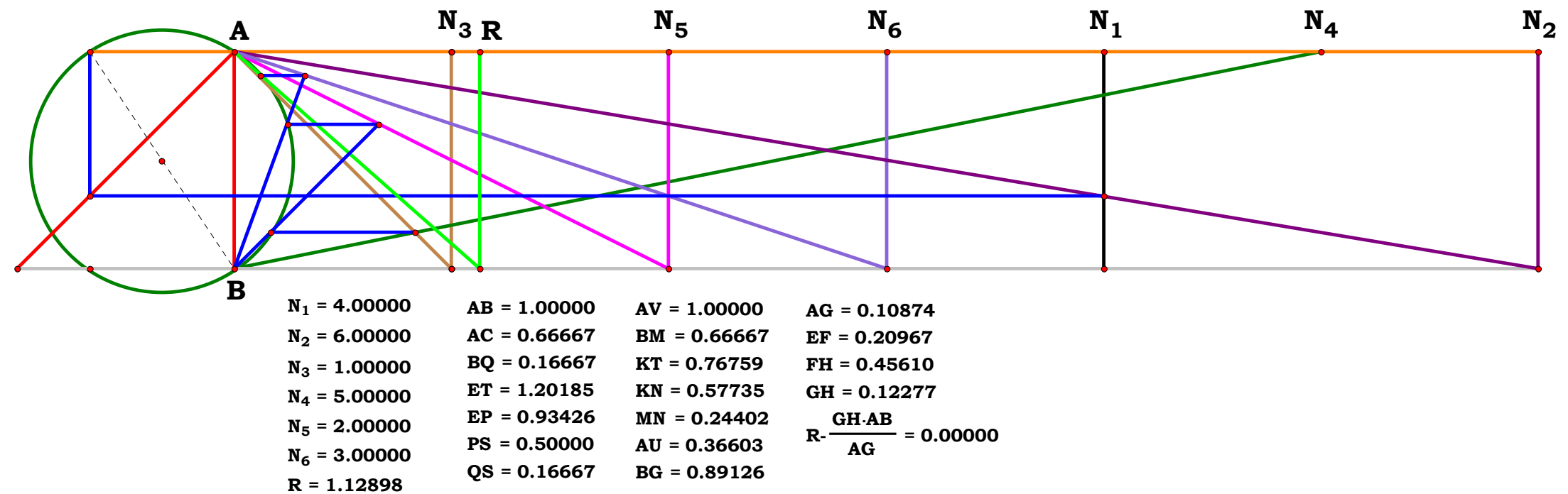
$$AG := AB - BG$$

$$EF := AG + \frac{ET - AB}{2} \quad FH := \sqrt{EF \cdot (ET - EF)}$$

$$GH := FH - \frac{AC}{2} \quad R := \frac{GH \cdot AB}{AG}$$

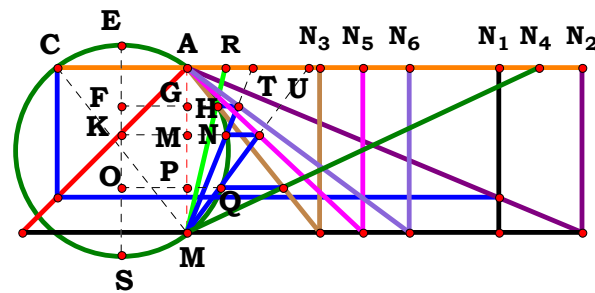
$$R = 1.132161$$

Definitions.





Unit.
AB := 1
 Given.
N₁ := 1.88613 **N₃** := .80606
N₂ := 2.38980 **N₄** := 2.13064
 N₅ := 1.06544
 N₆ := 1.34632



N₁ = 1.88613 **N₅** = 1.06544
N₂ = 2.38980 **N₆** = 1.34632
N₃ = 0.80606 **R** = 0.23489
N₄ = 2.13064

Descriptions.

$$\mathbf{AC} := \frac{\mathbf{N_1}}{\mathbf{N_2}} \quad \mathbf{BP} := \frac{\mathbf{AB} \cdot \mathbf{N_3}}{\mathbf{N_3} + \mathbf{N_4}}$$

$$\mathbf{ES} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2} \quad \mathbf{OS} := \mathbf{BP} + \frac{\mathbf{ES} - \mathbf{AB}}{2}$$

$$\mathbf{OQ} := \sqrt{\mathbf{OS} \cdot (\mathbf{ES} - \mathbf{OS})} \quad \mathbf{PQ} := \mathbf{OQ} - \frac{\mathbf{AC}}{2}$$

$$\mathbf{AU} := \frac{\mathbf{PQ} \cdot \mathbf{AB}}{\mathbf{BP}}$$

$$\mathbf{BM} := \frac{\mathbf{AB} \cdot \mathbf{N_5}}{\mathbf{N_5} + \mathbf{AU}}$$

$$\mathbf{KS} := \mathbf{BM} + \frac{\mathbf{ES} - \mathbf{AB}}{2}$$

$$\mathbf{KN} := \sqrt{\mathbf{KS} \cdot (\mathbf{ES} - \mathbf{KS})}$$

$$\mathbf{MN} := \mathbf{KN} - \frac{\mathbf{AC}}{2}$$

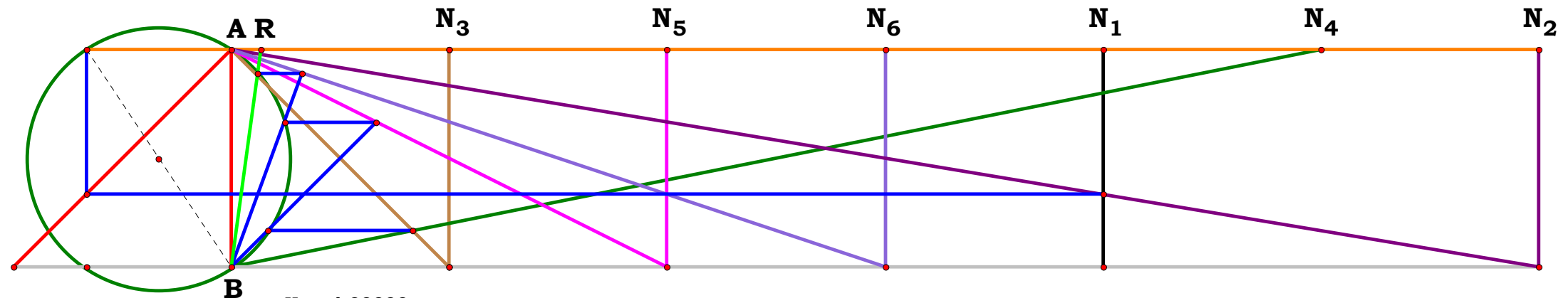
$$\mathbf{AT} := \frac{\mathbf{MN} \cdot \mathbf{AB}}{\mathbf{BM}}$$

$$\mathbf{BG} := \frac{\mathbf{N_6} \cdot \mathbf{AB}}{\mathbf{N_6} + \mathbf{AT}} \quad \mathbf{FS} := \mathbf{BG} + \frac{\mathbf{ES} - \mathbf{AB}}{2}$$

$$\mathbf{FH} := \sqrt{\mathbf{FS} \cdot (\mathbf{ES} - \mathbf{FS})} \quad \mathbf{GH} := \mathbf{FH} - \frac{\mathbf{AC}}{2}$$

$$\mathbf{R} := \frac{\mathbf{GH} \cdot \mathbf{AB}}{\mathbf{BG}} \quad \mathbf{R} = 0.234891$$

Definitions.



N₁ = 4.00000	AB = 1.00000	AU = 1.00000	FS = 0.99218
N₂ = 6.00000	AC = 0.66667	BM = 0.66667	FH = 0.45610
N₃ = 1.00000	BP = 0.16667	KS = 0.76759	GH = 0.12277
N₄ = 5.00000	ES = 1.20185	KN = 0.57735	$\mathbf{R} - \frac{\mathbf{GH} \cdot \mathbf{AB}}{\mathbf{BG}} = 0.00000$
N₅ = 2.00000	OS = 0.26759	MN = 0.24402	
N₆ = 3.00000	OQ = 0.50000	AT = 0.36603	
R = 0.13775	PQ = 0.16667	BG = 0.89126	



Unit.

$AB := 1$

Given.

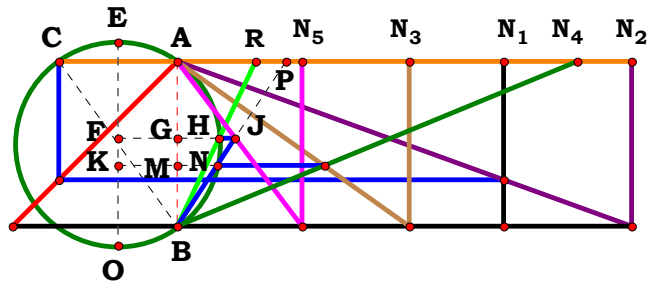
$N_1 := 1.97331$

$N_2 := 2.74817$

$N_3 := 1.40657$

$N_4 := 2.42122$

$N_5 := .75549$



$N_1 = 1.97331$

$N_2 = 2.74817$

$N_3 = 1.40657$

$N_4 = 2.42122$

$N_5 = 0.75549$

$R = 0.47844$

Descriptions.

$$AC := \frac{N_1}{N_2} \quad BM := \frac{N_3 \cdot AB}{N_3 + N_4}$$

$$EO := \sqrt{AB^2 + AC^2} \quad KO := BM + \frac{EO - AB}{2}$$

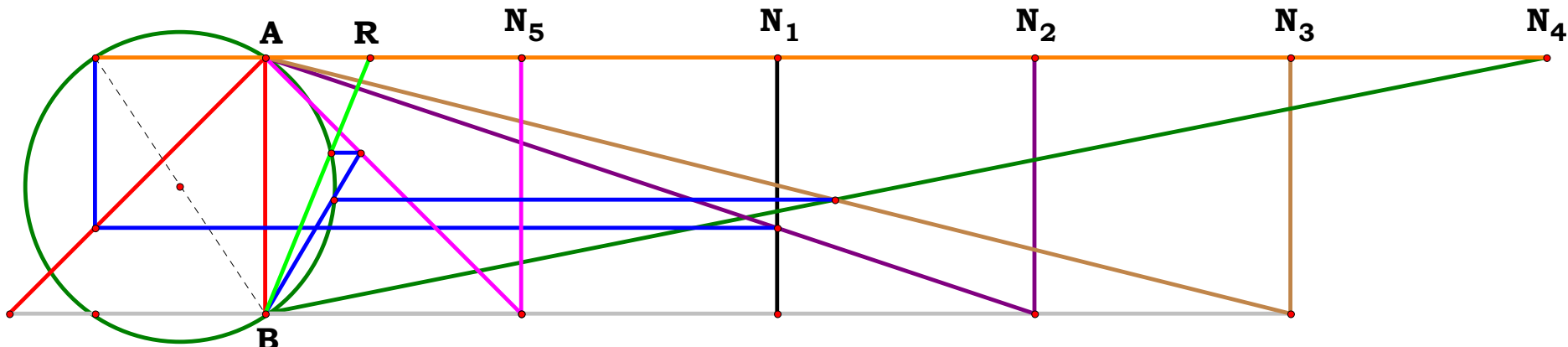
$$KN := \sqrt{KO \cdot (EO - KO)} \quad MN := KN - \frac{AC}{2}$$

$$AP := \frac{MN \cdot AB}{BM} \quad BG := \frac{N_5 \cdot AB}{AP + N_5}$$

$$FO := BG + \frac{EO - AB}{2} \quad FH := \sqrt{FO \cdot (EO - FO)}$$

$$GH := FH - \frac{AC}{2} \quad R := \frac{GH \cdot AB}{BG}$$

$R = 0.47844$



$N_1 = 2.00000$

$N_2 = 3.00000$

$N_3 = 4.00000$

$N_4 = 5.00000$

$N_5 = 1.00000$

$R = 0.40568$

$AB = 1.00000$

$AC = 0.66667$

$BM = 0.44444$

$EO = 1.20185$

$KO = 0.54537$

$KN = 0.59835$

$MN = 0.26502$

$AP = 0.59629$

$BG = 0.62645$

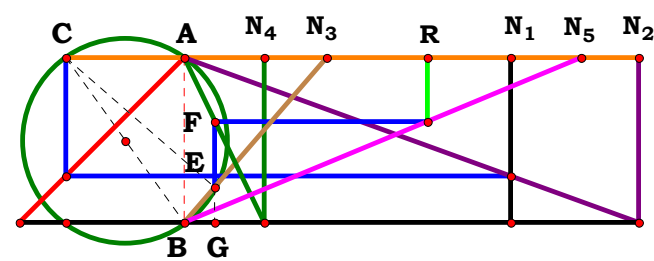
$FO = 0.72738$

$FH = 0.58747$

$GH = 0.25414$

$$R - \frac{AB \cdot GH}{BG} = 0.00000$$

Definitions.



$N_1 = 1.97331$
 $N_2 = 2.74817$
 $N_3 = 0.86417$
 $N_4 = 0.48406$
 $N_5 = 2.40207$
 $R = 1.47045$

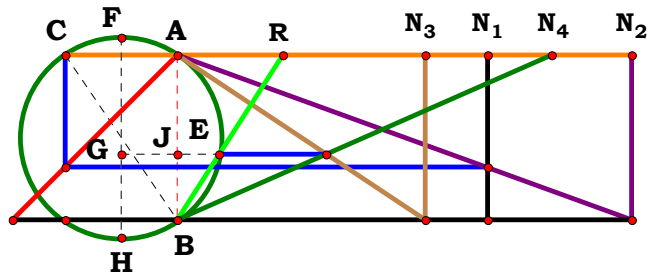
Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .86417$
 $N_4 := .48406$ $N_5 := 2.40207$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot C \cdot N_u \cdot (C - D) + N_u^2 \cdot (B \cdot D + A \cdot N_u)}{A \cdot E \cdot (C^2 + N_u^2)} = 1.470443 \quad \text{Num} := \frac{A \cdot C \cdot N_u \cdot (C - D) + N_u^2 \cdot (B \cdot D + A \cdot N_u)}{\sqrt{[A \cdot C \cdot N_u \cdot (C - D) + N_u^2 \cdot (B \cdot D + A \cdot N_u)]^2}}$$
$$\text{Den} := \frac{A \cdot E \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot E \cdot (C^2 + N_u^2)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{[N_u^2 \cdot (B \cdot D + A \cdot N_u) + A \cdot C \cdot N_u \cdot (C - D)] \cdot \sqrt{A^2 \cdot E^2 \cdot (C^2 + N_u^2)^2}}{A \cdot E \cdot (C^2 + N_u^2) \cdot \sqrt{[N_u^2 \cdot (B \cdot D + A \cdot N_u) + A \cdot C \cdot N_u \cdot (C - D)]^2}} = 0$$



$N_1 = 1.87645$
 $N_2 = 2.74817$
 $N_3 = 1.50343$
 $N_4 = 2.26624$
 $R = 0.64069$

Unit. $AB := 1$ Given. $N_1 := 1.87645$ $N_2 := 2.74817$ $N_3 := 1.50343$
 $N_4 := 2.26624$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2} - B \cdot (C + D)}{2 \cdot A \cdot D} = 0.640693$$

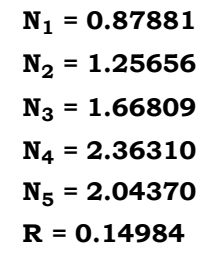
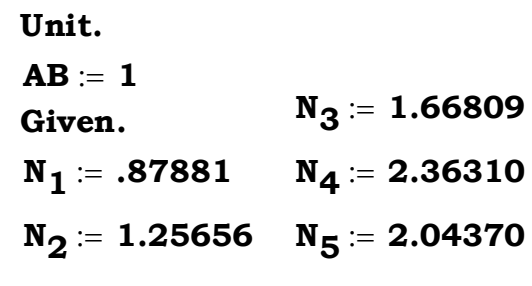
$$\text{Num} := \frac{\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2} - B \cdot (C + D)}{\sqrt{\left[\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2} - B \cdot (C + D)\right]^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot D}{\sqrt{(2 \cdot A \cdot D)^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

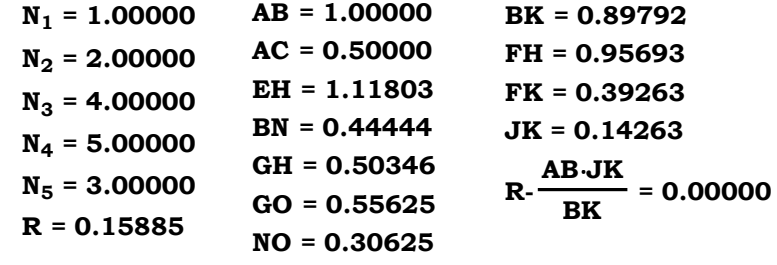
$$L - \frac{\left[\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2} - B \cdot (C + D)\right] \cdot \sqrt{A^2 \cdot D^2}}{A \cdot D \cdot \sqrt{\left[\sqrt{4 \cdot A^2 \cdot C \cdot D + B^2 \cdot C^2 + 2 \cdot B^2 \cdot C \cdot D + B^2 \cdot D^2} - B \cdot (C + D)\right]^2}} = 0$$

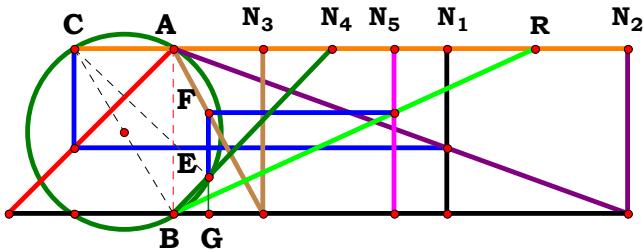

$$\mathbf{AC} := \frac{\mathbf{N}_1}{\mathbf{N}_2} \quad \mathbf{EH} := \sqrt{\mathbf{AB}^2 + \mathbf{AC}^2}$$

$$\mathbf{GO} := \sqrt{\mathbf{GH} \cdot (\mathbf{EH} - \mathbf{GH})} \quad \mathbf{NO} := \mathbf{GO} - \frac{\mathbf{AC}}{2}$$

$$\mathbf{FK} := \sqrt{\mathbf{FH} \cdot (\mathbf{EH} - \mathbf{FH})} \quad \mathbf{JK} := \mathbf{FK} - \frac{\mathbf{AC}}{2}$$

$$R := \frac{JK \cdot AB}{BK} \quad R = 0.149838$$





N₁ = 1.65368
N₂ = 2.74817
N₃ = 0.54454
N₄ = 0.95866
N₅ = 1.33664
R = 2.18469

Unit. AB := 1 Given. N₁ := 1.65368 N₂ := 2.74817 N₃ := .54454

N₄ := .95866 N₅ := 1.33664

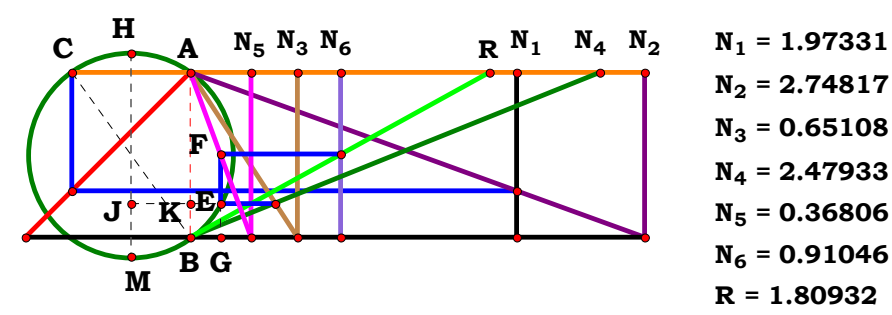
N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot N_u \cdot \left(D^2 + N_u^2\right)}{E \cdot \left[A \cdot D \cdot (D - C) + N_u \cdot \left(B \cdot C + A \cdot N_u\right)\right]} = 2.184699 \qquad \text{Num} := \frac{A \cdot N_u \cdot \left(D^2 + N_u^2\right)}{\sqrt{\left[A \cdot N_u \cdot \left(D^2 + N_u^2\right)\right]^2}} \qquad \text{Den} := \frac{E \cdot \left[A \cdot D \cdot (D - C) + N_u \cdot \left(B \cdot C + A \cdot N_u\right)\right]}{\sqrt{\left[E \cdot \left[A \cdot D \cdot (D - C) + N_u \cdot \left(B \cdot C + A \cdot N_u\right)\right]\right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot N_u \cdot \sqrt{E^2 \cdot \left[N_u \cdot \left(B \cdot C + A \cdot N_u\right) - A \cdot D \cdot (C - D)\right]^2 \cdot \left(D^2 + N_u^2\right)}}{E \cdot \left[N_u \cdot \left(B \cdot C + A \cdot N_u\right) - A \cdot D \cdot (C - D)\right] \cdot \sqrt{A^2 \cdot N_u^2 \cdot \left(D^2 + N_u^2\right)^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 1.97331$

$N_2 := 2.74817$

$N_3 := .65108$

$N_4 := 2.47933$

$N_5 := .36806$

$N_6 := .91046$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot A \cdot N_u^2 \cdot (C + D)}{F \cdot \left[B \cdot E \cdot (C + D) + 2 \cdot A \cdot N_u \cdot (C + D) - E \cdot \sqrt{B^2 \cdot C^2 + B^2 \cdot D^2 + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + B^2)} \right]} = 1.809309$$

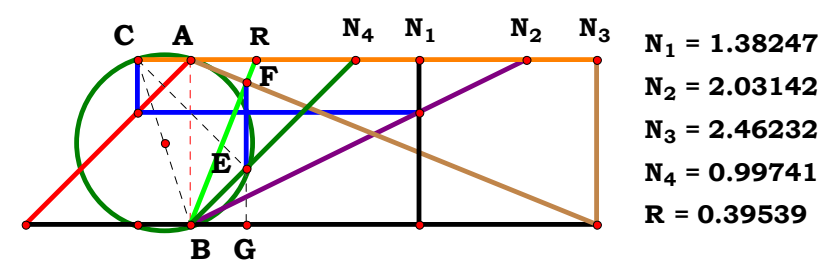
$$\text{Den} := \frac{F \cdot \left[B \cdot E \cdot (C + D) + 2 \cdot A \cdot N_u \cdot (C + D) - E \cdot \sqrt{B^2 \cdot C^2 + B^2 \cdot D^2 + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + B^2)} \right]}{\sqrt{\left[F \cdot \left[B \cdot E \cdot (C + D) + 2 \cdot A \cdot N_u \cdot (C + D) - E \cdot \sqrt{B^2 \cdot C^2 + B^2 \cdot D^2 + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + B^2)} \right] \right]^2}}$$

$$\text{Num} := \frac{2 \cdot A \cdot N_u^2 \cdot (C + D)}{\sqrt{\left[2 \cdot A \cdot N_u^2 \cdot (C + D) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{A \cdot N_u^2 \cdot \sqrt{F^2 \cdot \left[B \cdot E \cdot (C + D) - E \cdot \sqrt{B^2 \cdot C^2 + B^2 \cdot D^2 + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + B^2)} + 2 \cdot A \cdot N_u \cdot (C + D) \right]^2 \cdot (C + D)}}{F \cdot \left[B \cdot E \cdot (C + D) - E \cdot \sqrt{B^2 \cdot C^2 + B^2 \cdot D^2 + 2 \cdot C \cdot D \cdot (2 \cdot A^2 + B^2)} + 2 \cdot A \cdot N_u \cdot (C + D) \right] \cdot \sqrt{A^2 \cdot N_u^4 \cdot (C + D)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := 2.46232$
 $N_4 := .99741$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u \cdot (A \cdot D - A \cdot N_u + B \cdot N_u)}{A \cdot (D^2 - C \cdot D + N_u^2) + C \cdot N_u \cdot (A - B)} = 0.39539$$

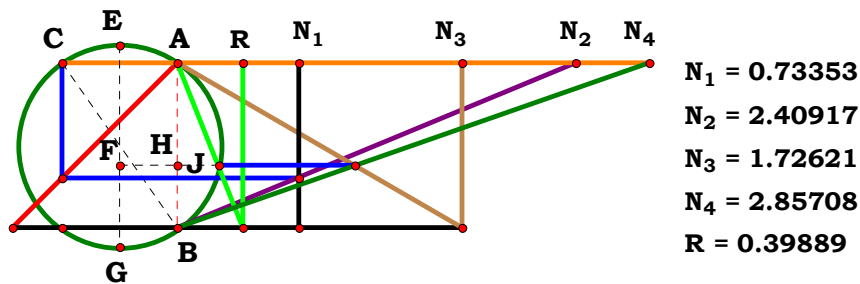
$$Num := \frac{N_u \cdot (A \cdot D - A \cdot N_u + B \cdot N_u)}{\sqrt{[N_u \cdot (A \cdot D - A \cdot N_u + B \cdot N_u)]^2}}$$

$$Den := \frac{A \cdot (D^2 - C \cdot D + N_u^2) + C \cdot N_u \cdot (A - B)}{\sqrt{[A \cdot (D^2 - C \cdot D + N_u^2) + C \cdot N_u \cdot (A - B)]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot \sqrt{[A \cdot (D^2 - C \cdot D + N_u^2) + C \cdot N_u \cdot (A - B)]^2} \cdot (A \cdot D - A \cdot N_u + B \cdot N_u)}{\sqrt{N_u^2 \cdot (A \cdot D - A \cdot N_u + B \cdot N_u)^2 \cdot [A \cdot (D^2 - C \cdot D + N_u^2) + C \cdot N_u \cdot (A - B)]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := .73353$ $N_2 := 2.40917$ $N_3 := 1.72621$
 $N_4 := 2.85708$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

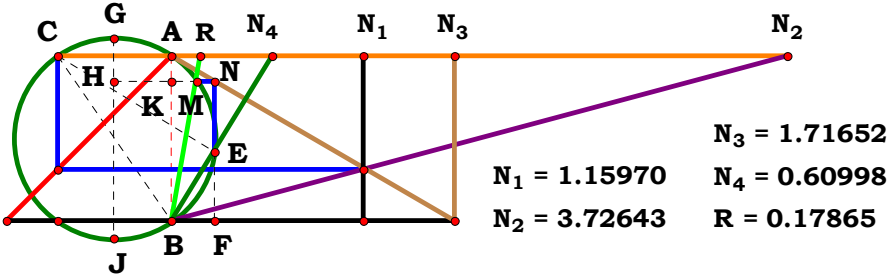
$$\frac{\sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (C + D) \cdot (A - B)}{2 \cdot A \cdot C} = 0.398896$$

$$Num := \frac{\sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (C + D) \cdot (A - B)}{\sqrt{\left[\sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (C + D) \cdot (A - B) \right]^2}}$$

$Den := \frac{2 \cdot A \cdot C}{\sqrt{(2 \cdot A \cdot C)^2}}$ $L := \frac{Num}{Den}$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{\sqrt{A^2 \cdot C^2} \cdot \left[\sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (C + D) \cdot (A - B) \right]}{A \cdot C \cdot \sqrt{\left[\sqrt{(C^2 + D^2) \cdot (A - B)^2 + 2 \cdot C \cdot D \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (C + D) \cdot (A - B) \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.15970$ $N_2 := 3.72643$ $N_3 := 1.71652$

$N_4 := .60998$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{\sqrt{\left(D^2+N_u^2\right)^2\cdot\left(A-B\right)^2-4\cdot C^2\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)^2+4\cdot A\cdot C\cdot\left(D^2+N_u^2\right)\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)-\left(D^2+N_u^2\right)\cdot\left(A-B\right)}}{2\cdot\left[A\cdot\left(D^2-C\cdot D+N_u^2+C\cdot N_u\right)-B\cdot C\cdot N_u\right]}=0.178653$$

$$Num:=\frac{\sqrt{\left(D^2+N_u^2\right)^2\cdot\left(A-B\right)^2-4\cdot C^2\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)^2+4\cdot A\cdot C\cdot\left(D^2+N_u^2\right)\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)-\left(D^2+N_u^2\right)\cdot\left(A-B\right)}}{\sqrt{\left[\sqrt{\left(D^2+N_u^2\right)^2\cdot\left(A-B\right)^2-4\cdot C^2\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)^2+4\cdot A\cdot C\cdot\left(D^2+N_u^2\right)\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)-\left(D^2+N_u^2\right)\cdot\left(A-B\right)}\right]^2}}$$

$$Den:=\frac{2\cdot\left[A\cdot\left(D^2-C\cdot D+N_u^2+C\cdot N_u\right)-B\cdot C\cdot N_u\right]}{\sqrt{\left[2\cdot\left[A\cdot\left(D^2-C\cdot D+N_u^2+C\cdot N_u\right)-B\cdot C\cdot N_u\right]\right]^2}}\qquad L:=\frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L-\frac{\left[\sqrt{\left(D^2+N_u^2\right)^2\cdot\left(A-B\right)^2-4\cdot C^2\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)^2+4\cdot A\cdot C\cdot\left(D^2+N_u^2\right)\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)-\left(D^2+N_u^2\right)\cdot\left(A-B\right)}\right]\cdot\sqrt{\left[2\cdot A\cdot\left(D^2-C\cdot D+N_u^2+C\cdot N_u\right)-2\cdot B\cdot C\cdot N_u\right]^2}}{\sqrt{\left[\sqrt{\left(D^2+N_u^2\right)^2\cdot\left(A-B\right)^2-4\cdot C^2\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)^2+4\cdot A\cdot C\cdot\left(D^2+N_u^2\right)\cdot\left(A\cdot D-A\cdot N_u+B\cdot N_u\right)-\left(D^2+N_u^2\right)\cdot\left(A-B\right)}\right]^2}\cdot\left[2\cdot A\cdot\left(D^2-C\cdot D+N_u^2+C\cdot N_u\right)-2\cdot B\cdot C\cdot N_u\right]}=0$$



Unit.

$AB := 1$

Given.

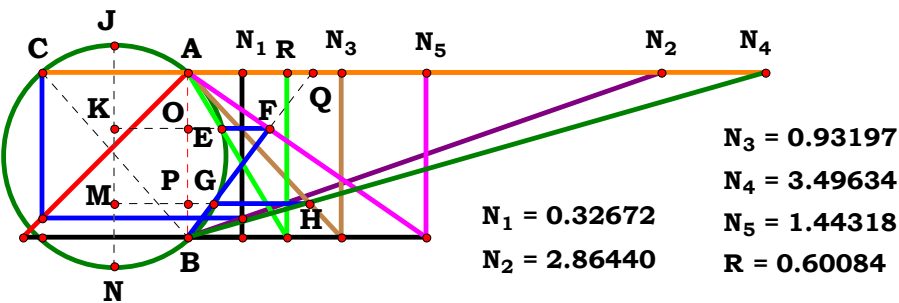
$N_1 := .32672$

$N_2 := 2.86440$

$N_3 := .93197$

$N_4 := 3.49634$

$N_5 := 1.44318$



Descriptions.

$AC := \frac{N_2 - N_1}{N_2}$ $BP := \frac{AB \cdot N_3}{N_3 + N_4}$

$JN := \sqrt{AB^2 + AC^2}$ $JM := JN - \left(BP + \frac{JN - AB}{2} \right)$

$GM := \sqrt{JM \cdot (JN - JM)}$ $PG := GM - \frac{AC}{2}$

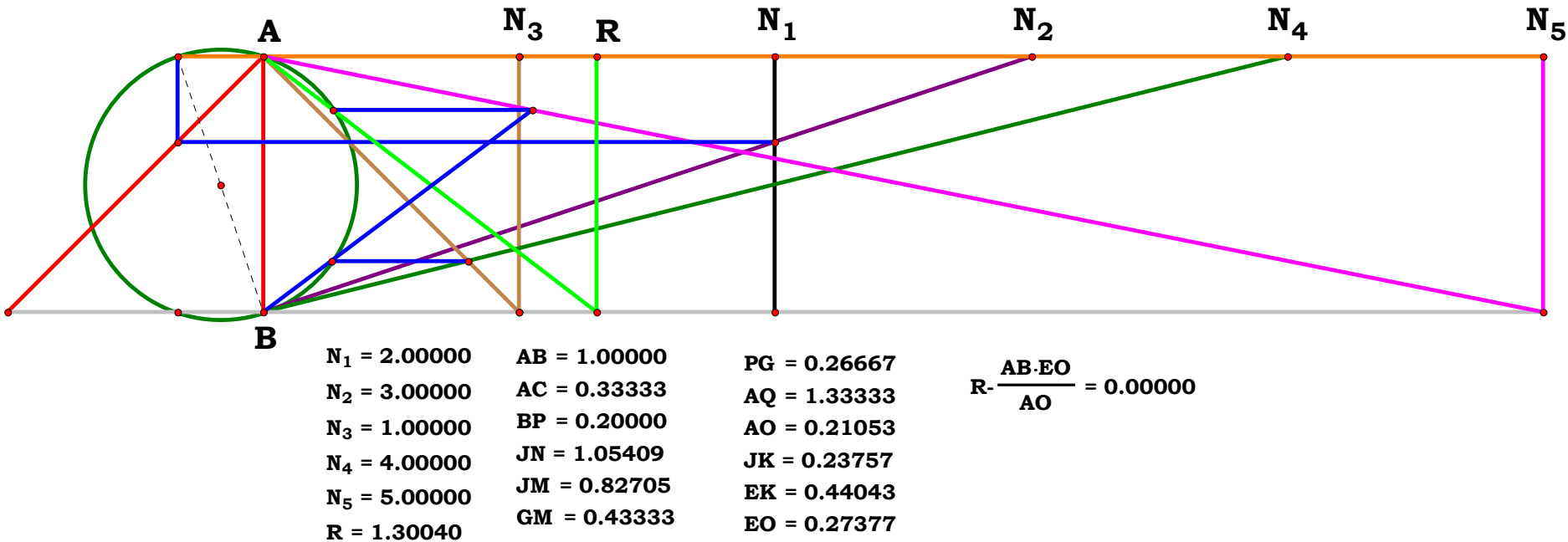
$AQ := \frac{PG \cdot AB}{BP}$ $AO := \frac{AB \cdot AQ}{AQ + N_5}$

$JK := AO + \frac{JN - AB}{2}$ $EK := \sqrt{JK \cdot (JN - JK)}$

$EO := EK - \frac{AC}{2}$ $R := \frac{EO \cdot AB}{AO}$

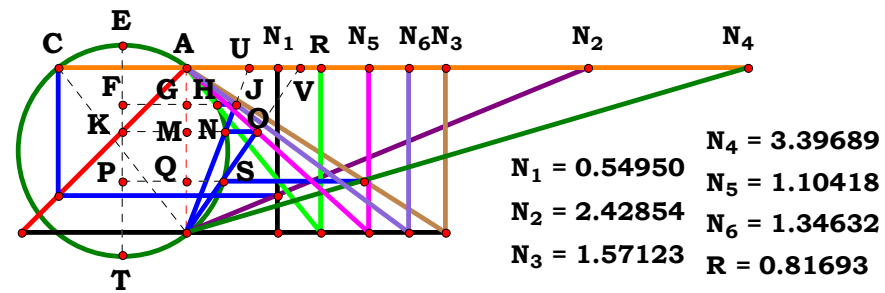
$R = 0.600839$

Definitions.





Unit.
AB := 1
Given.
N₁ := .54950
N₂ := 2.42854
N₃ := 1.57123
N₄ := 3.39689
N₅ := 1.10418
N₆ := 1.34632



Descriptions.

$AC := \frac{N_2 - N_1}{N_2}$ $BQ := \frac{AB \cdot N_3}{N_3 + N_4}$

$ET := \sqrt{AB^2 + AC^2}$ $EP := ET - \left(BQ + \frac{ET - AB}{2} \right)$

$PS := \sqrt{EP \cdot (ET - EP)}$ $QS := PS - \frac{AC}{2}$

$AV := \frac{QS \cdot AB}{BQ}$ $BM := \frac{AB \cdot N_5}{AV + N_5}$

$KT := BM + \frac{ET - AB}{2}$

$KN := \sqrt{KT \cdot (ET - KT)}$

$MN := KN - \frac{AC}{2}$

$AU := \frac{MN \cdot AB}{BM}$

$BG := \frac{AB \cdot N_6}{AU + N_6}$

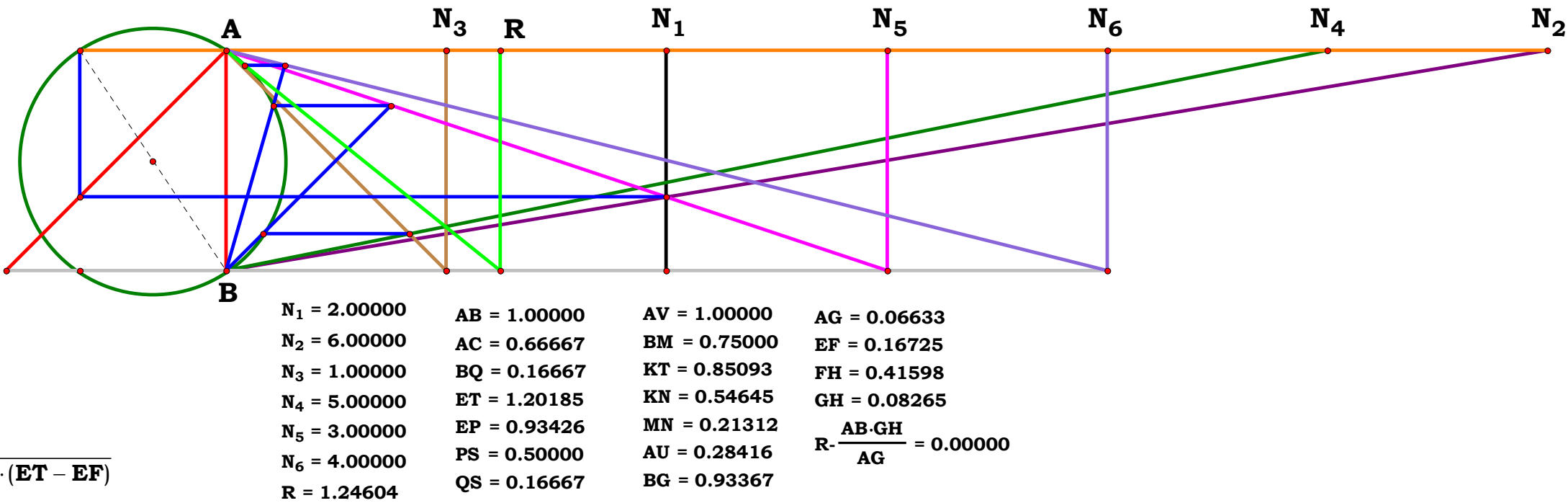
$AG := AB - BG$

$EF := AG + \frac{ET - AB}{2}$ $FH := \sqrt{EF \cdot (ET - EF)}$

$GH := FH - \frac{AC}{2}$ $R := \frac{GH \cdot AB}{AG}$

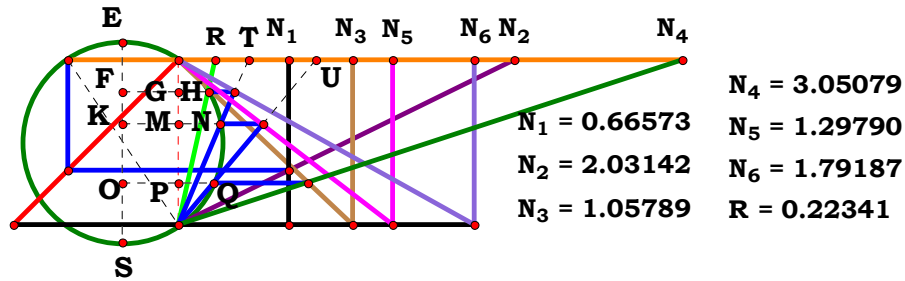
R = 0.816934

Definitions.





Unit.
 AB := 1
 Given.
 N₁ := .66573
 N₂ := 2.03142
 N₃ := 1.05789
 N₄ := 3.05079
 N₅ := 1.29790
 N₆ := 1.79187



Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BP := \frac{AB \cdot N_3}{N_3 + N_4}$$

$$ES := \sqrt{AB^2 + AC^2} \quad OS := BP + \frac{ES - AB}{2}$$

$$OQ := \sqrt{OS \cdot (ES - OS)} \quad PQ := OQ - \frac{AC}{2}$$

$$AU := \frac{PQ \cdot AB}{BP} \quad BM := \frac{AB \cdot N_5}{N_5 + AU}$$

$$KS := BM + \frac{ES - AB}{2}$$

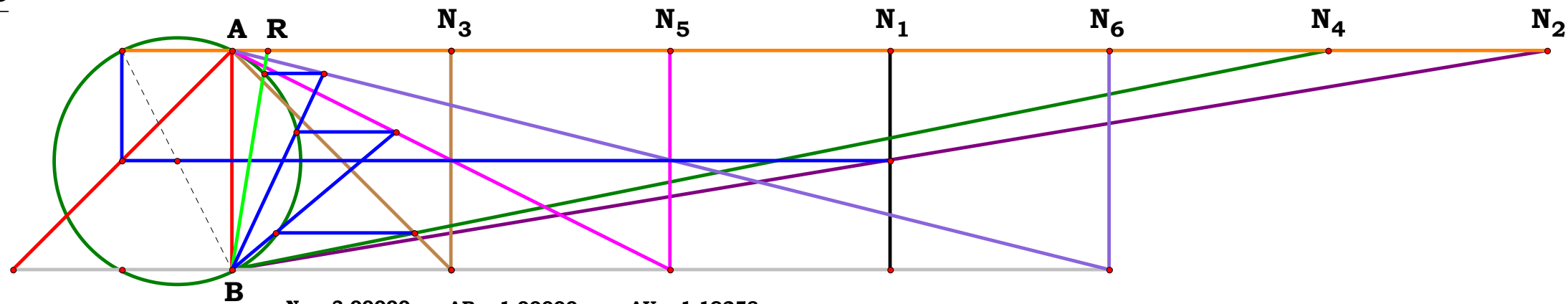
$$KN := \sqrt{KS \cdot (ES - KS)}$$

$$MN := KN - \frac{AC}{2} \quad AT := \frac{MN \cdot AB}{BM}$$

$$BG := \frac{N_6 \cdot AB}{N_6 + AT} \quad FS := BG + \frac{ES - AB}{2}$$

$$FH := \sqrt{FS \cdot (ES - FS)} \quad GH := FH - \frac{AC}{2}$$

$$R := \frac{GH \cdot AB}{BG} \quad R = 0.223407$$



N ₁ = 3.00000	AB = 1.00000	AU = 1.19258	FS = 0.95384
N ₂ = 6.00000	AC = 0.50000	BM = 0.62645	FH = 0.39574
N ₃ = 1.00000	BP = 0.16667	KS = 0.68547	GH = 0.14574
N ₄ = 5.00000	ES = 1.11803	KN = 0.54453	$R \cdot \frac{AB \cdot GH}{BG} = 0.00000$
N ₅ = 2.00000	OS = 0.22568	MN = 0.29453	
N ₆ = 4.00000	OQ = 0.44876	AT = 0.47015	
R = 0.16288	PQ = 0.19876	BG = 0.89482	

Definitions.



Unit.

$$AB := 1$$

Given.

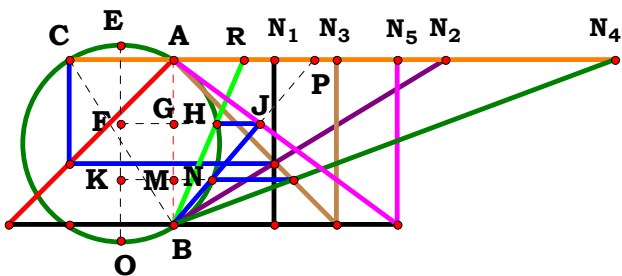
$$N_1 := .60761$$

$$N_2 := 1.64399$$

$$N_3 := .99009$$

$$N_4 := 2.67305$$

$$N_5 := 1.35601$$



$$N_1 = 0.60761$$

$$N_2 = 1.64399$$

$$N_3 = 0.99009$$

$$N_4 = 2.67305$$

$$N_5 = 1.35601$$

$$R = 0.43013$$

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad BM := \frac{N_3 \cdot AB}{N_3 + N_4}$$

$$EO := \sqrt{AB^2 + AC^2} \quad KO := BM + \frac{EO - AB}{2}$$

$$KN := \sqrt{KO \cdot (EO - KO)} \quad MN := KN - \frac{AC}{2}$$

$$AP := \frac{MN \cdot AB}{BM} \quad BG := \frac{N_5 \cdot AB}{AP + N_5}$$

$$FO := BG + \frac{EO - AB}{2}$$

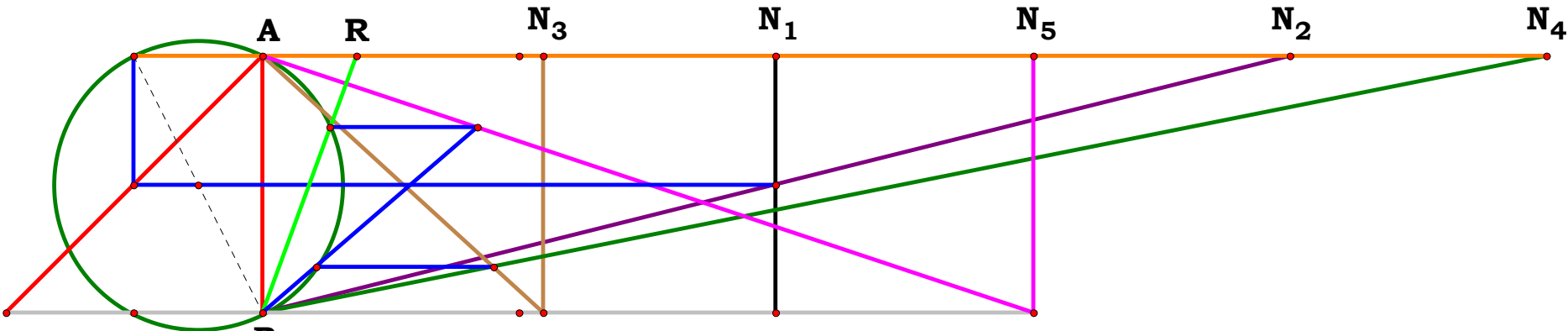
$$FH := \sqrt{FO \cdot (EO - FO)}$$

$$GH := FH - \frac{AC}{2}$$

$$R := \frac{GH \cdot AB}{BG}$$

$$R = 0.430132$$

Definitions.



$$N_1 = 2.00000$$

$$N_2 = 4.00000$$

$$N_3 = 1.09412$$

$$N_4 = 5.00000$$

$$N_5 = 3.00000$$

$$R = 0.36503$$

$$AB = 1.00000$$

$$AC = 0.50000$$

$$BM = 0.17954$$

$$EO = 1.11803$$

$$KO = 0.23855$$

$$KN = 0.45804$$

$$MN = 0.20804$$

$$AP = 1.15878$$

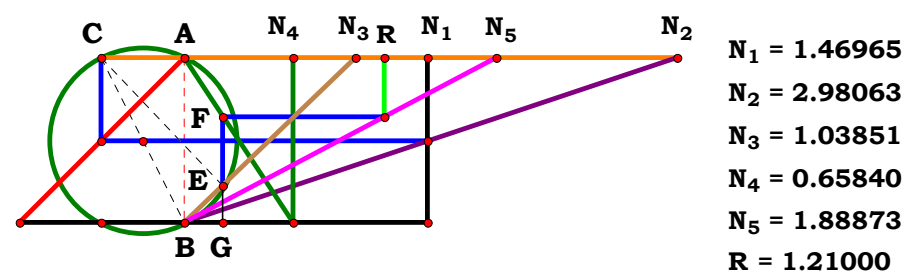
$$BG = 0.72137$$

$$FO = 0.78038$$

$$FH = 0.51332$$

$$GH = 0.26332$$

$$R - \frac{AB \cdot GH}{BG} = 0.00000$$



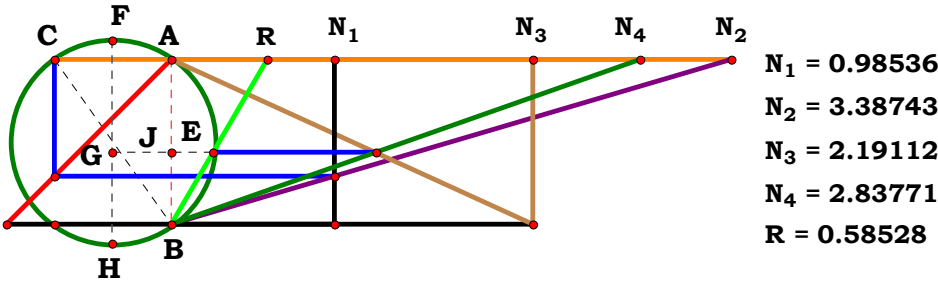
Unit. $AB := 1$ Given. $N_1 := 1.46965$ $N_2 := 2.98063$ $N_3 := 1.03851$
 $N_4 := .65840$ $N_5 := 1.88873$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot C \cdot N_u \cdot (C - D) + N_u \cdot [N_u \cdot [D \cdot (A - B) + A \cdot N_u]]}{A \cdot E \cdot (C^2 + N_u^2)} = 1.209993$$
$$Num := \frac{A \cdot C \cdot N_u \cdot (C - D) + N_u \cdot [N_u \cdot [D \cdot (A - B) + A \cdot N_u]]}{\sqrt{[A \cdot C \cdot N_u \cdot (C - D) + N_u \cdot [N_u \cdot [D \cdot (A - B) + A \cdot N_u]]]^2}}$$
$$Den := \frac{A \cdot E \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot E \cdot (C^2 + N_u^2)]^2}}$$
$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{[N_u^2 \cdot [A \cdot N_u + D \cdot (A - B)] + A \cdot C \cdot N_u \cdot (C - D)] \cdot \sqrt{A^2 \cdot E^2 \cdot (C^2 + N_u^2)^2}}{A \cdot E \cdot (C^2 + N_u^2) \cdot \sqrt{[N_u^2 \cdot [A \cdot N_u + D \cdot (A - B)] + A \cdot C \cdot N_u \cdot (C - D)]^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := .98536$

$N_2 := 3.38743$

$N_3 := 2.19112$

$N_4 := 2.83771$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\sqrt{\left(C^2+D^2\right) \cdot\left(A-B\right)^2+2 \cdot C \cdot D \cdot\left(3 \cdot A^2-2 \cdot A \cdot B+B^2\right)}-A \cdot(C+D)+B \cdot(C+D)}{2 \cdot A \cdot D}=0.585284$$

$$\text{Num}:=\frac{\sqrt{\left(C^2+D^2\right) \cdot\left(A-B\right)^2+2 \cdot C \cdot D \cdot\left(3 \cdot A^2-2 \cdot A \cdot B+B^2\right)}-A \cdot(C+D)+B \cdot(C+D)}{\sqrt{\left[\sqrt{\left(C^2+D^2\right) \cdot\left(A-B\right)^2+2 \cdot C \cdot D \cdot\left(3 \cdot A^2-2 \cdot A \cdot B+B^2\right)}-A \cdot(C+D)+B \cdot(C+D)\right]^2}}$$

$$\text{Den}:=\frac{2 \cdot A \cdot D}{\sqrt{\left(2 \cdot A \cdot D\right)^2}}$$

$$L:=\frac{\text{Num}}{\text{Den}}$$

Num = 1

Den = 1

L = 1

$$L-\frac{\sqrt{A^2 \cdot D^2} \cdot\left[B \cdot(C+D)-A \cdot(C+D)+\sqrt{\left(C^2+D^2\right) \cdot\left(A-B\right)^2+2 \cdot C \cdot D \cdot\left(3 \cdot A^2-2 \cdot A \cdot B+B^2\right)}\right]}{A \cdot D \cdot \sqrt{\left[B \cdot(C+D)-A \cdot(C+D)+\sqrt{\left(C^2+D^2\right) \cdot\left(A-B\right)^2+2 \cdot C \cdot D \cdot\left(3 \cdot A^2-2 \cdot A \cdot B+B^2\right)}\right]^2}}=0$$



Unit.

$AB := 1$

Given.

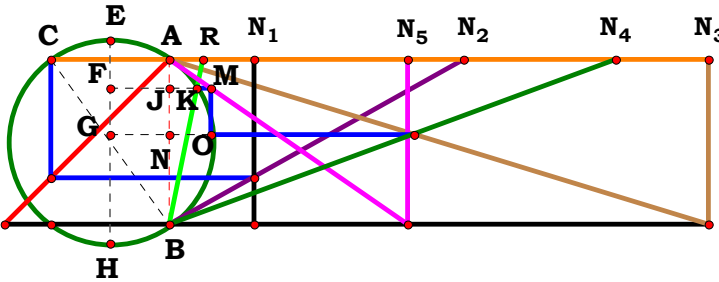
$N_1 := .51075$

$N_2 := 1.77959$

$N_3 := 3.26624$

$N_4 := 2.70210$

$N_5 := 1.44318$



$N_1 = 0.51075$

$N_2 = 1.77959$

$N_3 = 3.26624$

$N_4 = 2.70210$

$N_5 = 1.44318$

$R = 0.20164$

Descriptions.

$AC := \frac{N_2 - N_1}{N_2}$ $EH := \sqrt{AB^2 + AC^2}$

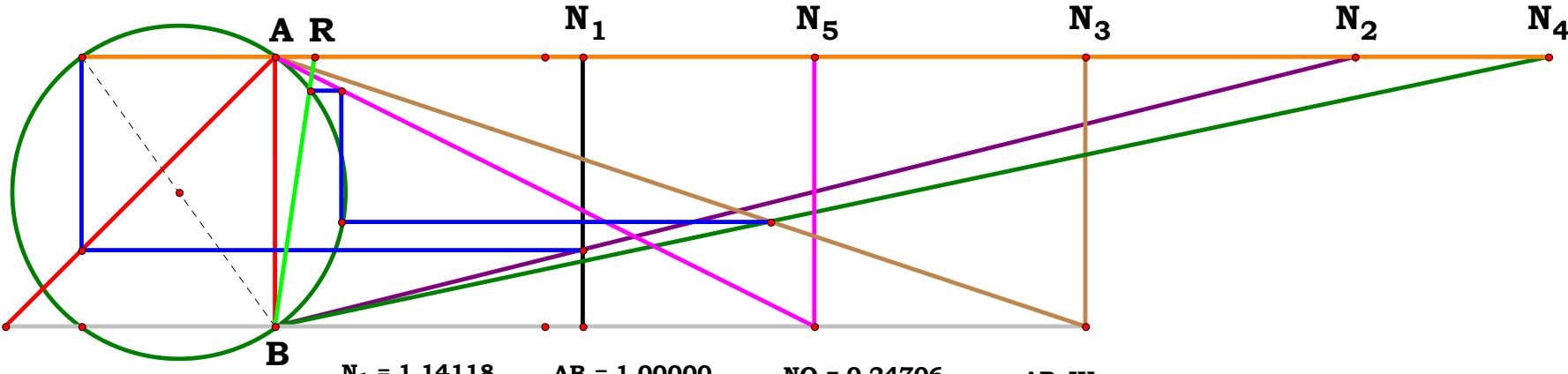
$BN := \frac{AB \cdot N_3}{N_3 + N_4}$ $GH := BN + \frac{EH - AB}{2}$

$GO := \sqrt{GH \cdot (EH - GH)}$ $NO := GO - \frac{AC}{2}$

$BK := \frac{AB \cdot (N_5 - NO)}{N_5}$ $FH := BK + \frac{EH - AB}{2}$

$FK := \sqrt{FH \cdot (EH - FH)}$ $JK := FK - \frac{AC}{2}$

$R := \frac{JK \cdot AB}{BK}$ $R = 0.201637$



$N_1 = 1.14118$

$N_2 = 4.00000$

$N_3 = 3.00000$

$N_4 = 4.71764$

$N_5 = 2.00000$

$R = 0.14652$

$AB = 1.00000$

$AC = 0.71470$

$EH = 1.22915$

$BN = 0.38872$

$GH = 0.50329$

$GO = 0.60441$

$NO = 0.24706$

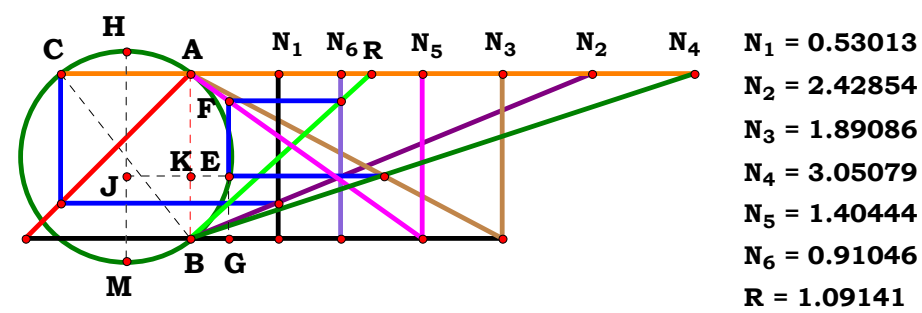
$BK = 0.87647$

$FH = 0.99104$

$FK = 0.48577$

$JK = 0.12842$

$R - \frac{AB \cdot JK}{BK} = 0.00000$



Unit.
AB
:=
1
Given.
N1
:=
.53013
N2
:=
2.42854
N3
:=
1.89086
N4
:=
3.05079
N5
:=
1.40444
N6
:=
.91046
Nu
:=
3
A
:=
NuN1
B
:=
NuN2
C
:=
NuN3
D
:=
NuN4
E
:=
NuN5
F
:=
NuN6

Descriptions.

2⋅A⋅N6⋅Nu⋅(C+D)

(C+D)⋅[E⋅(A−B)+2⋅A⋅Nu]−E⋅√(C2+D2)⋅(A−B)2+2⋅C⋅D⋅(3⋅A2−2⋅A⋅B+B2)

=
1.091401

Den
:=

(C+D)⋅[E⋅(A−B)+2⋅A⋅Nu]−E⋅√(C2+D2)⋅(A−B)2+2⋅C⋅D⋅(3⋅A2−2⋅A⋅B+B2)

√[(C+D)⋅[E⋅(A−B)+2⋅A⋅Nu]−E⋅√(C2+D2)⋅(A−B)2+2⋅C⋅D⋅(3⋅A2−2⋅A⋅B+B2)]2

Num
:=

2⋅A⋅N6⋅Nu⋅(C+D)

√[2⋅A⋅N6⋅Nu⋅(C+D)]2

L
:=
NumDen

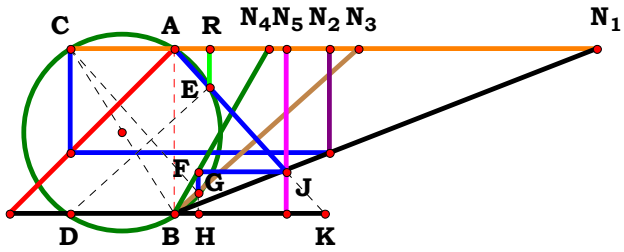
Num
=
1
Den
=
1
L
=
1

L
−

A⋅N6⋅Nu⋅√[2⋅A⋅Nu+E⋅(A−B)]⋅(C+D)−E⋅√(C2+D2)⋅(A−B)2+2⋅C⋅D⋅(3⋅A2−2⋅A⋅B+B2)]2⋅(C+D)

[2⋅A⋅Nu+E⋅(A−B)]⋅(C+D)−E⋅√(C2+D2)⋅(A−B)2+2⋅C⋅D⋅(3⋅A2−2⋅A⋅B+B2)]⋅√A2⋅N62⋅Nu2⋅(C+D)2

=
0



$N_1 = 2.55445$
 $N_2 = 0.93693$
 $N_3 = 1.11600$
 $N_4 = 0.57123$
 $N_5 = 0.67800$
 $R = 0.21085$

Unit. $AB := 1$ Given. $N_1 := 2.55445$ $N_2 := .93693$ $N_3 := 1.11600$
 $N_4 := .57123$ $N_5 := .67800$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{E \cdot B \cdot N_u \cdot (C^2 + N_u^2) \cdot \left[\left[N_u \cdot (B - A) - B \cdot C \right] \cdot D + B \cdot (C^2 + N_u^2) \right] + B \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A - B)}{\left[D \cdot \left[B \cdot C + N_u \cdot (A - B) \right] - \left[B \cdot (C^2 + N_u^2) \right] \right]^2 \cdot E^2 + B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2} = 0.210851$$

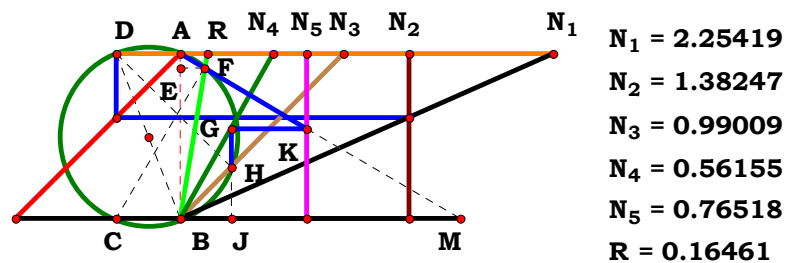
$$\text{Num} := \frac{B \cdot N_u \cdot (C^2 + N_u^2) \cdot \left[\left[N_u \cdot (B - A) - B \cdot C \right] \cdot D + B \cdot (C^2 + N_u^2) \right] + B \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A - B)}{\sqrt{\left[B \cdot N_u \cdot (C^2 + N_u^2) \cdot \left[\left[N_u \cdot (B - A) - B \cdot C \right] \cdot D + B \cdot (C^2 + N_u^2) \right] + B \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A - B) \right]^2}}$$

$$\text{Den} := \frac{\left[D \cdot \left[B \cdot C + N_u \cdot (A - B) \right] - \left[B \cdot (C^2 + N_u^2) \right] \right]^2 \cdot E^2 + B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}{\sqrt{\left[\left[D \cdot \left[B \cdot C + N_u \cdot (A - B) \right] - \left[B \cdot (C^2 + N_u^2) \right] \right]^2 \cdot E^2 + B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = -1 Den = 1 L = -1

$$L - \frac{\left[B \cdot N_u \cdot (C^2 + N_u^2) \cdot \left[B \cdot (C^2 + N_u^2) - D \cdot \left[B \cdot C + N_u \cdot (A - B) \right] \right] + B \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A - B) \right] \cdot \sqrt{\left[E^2 \cdot \left[B \cdot (C^2 + N_u^2) - D \cdot \left[B \cdot C + N_u \cdot (A - B) \right] \right]^2 + B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \right]^2}}{\left[E^2 \cdot \left[B \cdot (C^2 + N_u^2) - D \cdot \left[B \cdot C + N_u \cdot (A - B) \right] \right]^2 + B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \right] \cdot \sqrt{\left[B \cdot N_u \cdot (C^2 + N_u^2) \cdot \left[B \cdot (C^2 + N_u^2) - D \cdot \left[B \cdot C + N_u \cdot (A - B) \right] \right] + B \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A - B) \right]^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 2.25419$ $N_2 := 1.38247$ $N_3 := .99009$
 $N_4 := .56155$ $N_5 := .76518$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

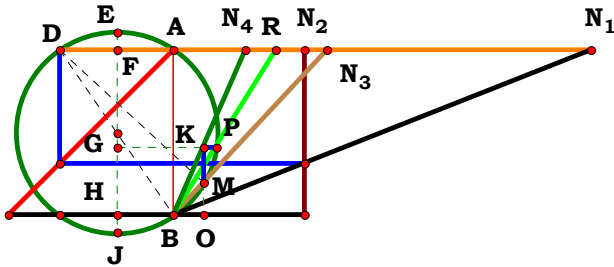
$$\frac{\mathbf{E} \cdot \left[\mathbf{B} \cdot \left(\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right) \right] + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2 \right) \cdot (\mathbf{A} - \mathbf{B})}{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^3 + \mathbf{E} \cdot \left[(\mathbf{A} - \mathbf{B}) \cdot \left(\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right) \right] + \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}} = \mathbf{0.164617}$$

$$\mathbf{Num} := \frac{\mathbf{E} \cdot \left[\mathbf{B} \cdot \left(\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{B} \cdot \mathbf{N}_u^2 - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_u + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_u \right) \right] + \mathbf{B} \cdot \mathbf{N}_u \cdot \left(\mathbf{C}^2 + \mathbf{N}_u^2 \right) \cdot (\mathbf{A} - \mathbf{B})}{\sqrt{\left[\mathbf{E} \cdot \left[\mathbf{B} \cdot \left(\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{B} \cdot \mathbf{N}_u^2 - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_u + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_u \right) \right] + \mathbf{B} \cdot \mathbf{N}_u \cdot \left(\mathbf{C}^2 + \mathbf{N}_u^2 \right) \cdot (\mathbf{A} - \mathbf{B}) \right]^2}}$$

$$\text{Den} := \frac{\mathbf{B}^2 \cdot \mathbf{N}_u^3 + \mathbf{E} \cdot \left[(\mathbf{A} - \mathbf{B}) \cdot (\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{N}_u^2 - \mathbf{B} \cdot \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_u - \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_u) \right] + \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_u}{\sqrt{\left[\mathbf{B}^2 \cdot \mathbf{N}_u^3 + \mathbf{E} \cdot \left[(\mathbf{A} - \mathbf{B}) \cdot (\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{N}_u^2 - \mathbf{B} \cdot \mathbf{C}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_u - \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_u) \right] + \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_u \right]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\left[\mathbf{B} \cdot \mathbf{E} \cdot \left(\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right) + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2 \right) \cdot (\mathbf{A} - \mathbf{B}) \right] \cdot \sqrt{\left[\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^3 - \mathbf{E} \cdot (\mathbf{A} - \mathbf{B}) \cdot \left(\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right) + \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}} \right]^2}}{\sqrt{\left[\mathbf{B} \cdot \mathbf{E} \cdot \left(\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right) + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2 \right) \cdot (\mathbf{A} - \mathbf{B}) \right]^2 \cdot \left[\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^3 - \mathbf{E} \cdot (\mathbf{A} - \mathbf{B}) \cdot \left(\mathbf{B} \cdot \mathbf{C}^2 + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \right) + \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}} \right]}} = \mathbf{0}$$



$N_1 = 2.52540$
 $N_2 = 0.79164$
 $N_3 = 0.93197$
 $N_4 = 0.43563$
 $R = 0.62289$

Unit. $AB := 1$ Given. $N_1 := 2.52540$ $N_2 := .79164$ $N_3 := .93197$

$N_4 := .43563$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

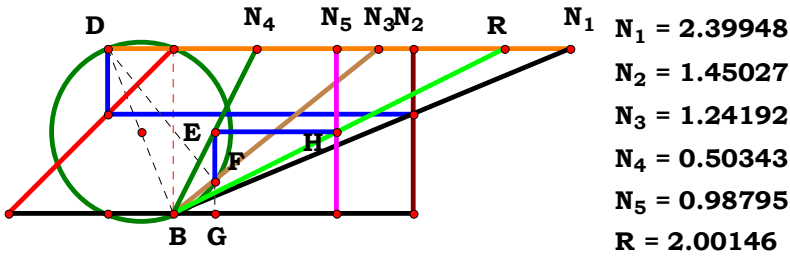
$$\frac{\sqrt{\left(C^2 + N_u^2\right)^2 \cdot (A - B)^2 + 4 \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right] \cdot \left[N_u \cdot \left[B \cdot N_u - D \cdot (A - B)\right] + B \cdot C \cdot (C - D)\right] + \left(C^2 + N_u^2\right) \cdot (A - B)}}{2 \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right]} = 0.622889$$

$$\text{Num} := \frac{\sqrt{\left(C^2 + N_u^2\right)^2 \cdot (A - B)^2 + 4 \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right] \cdot \left[N_u \cdot \left[B \cdot N_u - D \cdot (A - B)\right] + B \cdot C \cdot (C - D)\right] + \left(C^2 + N_u^2\right) \cdot (A - B)}}{\sqrt{\left[\sqrt{\left(C^2 + N_u^2\right)^2 \cdot (A - B)^2 + 4 \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right] \cdot \left[N_u \cdot \left[B \cdot N_u - D \cdot (A - B)\right] + B \cdot C \cdot (C - D)\right] + \left(C^2 + N_u^2\right) \cdot (A - B)}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right]}{\sqrt{\left[2 \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right]\right]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1 \quad \text{Den} = 1 \quad \text{L} = 1$

$$\text{L} - \frac{\sqrt{D^2 \cdot \left[B \cdot C + N_u \cdot (A - B)\right]^2} \cdot \left[\left(C^2 + N_u^2\right) \cdot (A - B) + \sqrt{\left(C^2 + N_u^2\right)^2 \cdot (A - B)^2 + 4 \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right] \cdot \left[N_u \cdot \left[B \cdot N_u - D \cdot (A - B)\right] + B \cdot C \cdot (C - D)\right]}\right]}{D \cdot \left[B \cdot C + N_u \cdot (A - B)\right] \cdot \sqrt{\left[\left(C^2 + N_u^2\right) \cdot (A - B) + \sqrt{\left(C^2 + N_u^2\right)^2 \cdot (A - B)^2 + 4 \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right] \cdot \left[N_u \cdot \left[B \cdot N_u - D \cdot (A - B)\right] + B \cdot C \cdot (C - D)\right]}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.45027$ $N_3 := 1.24192$
 $N_4 := .50343$ $N_5 := .98795$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{B \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]} = 2.001469$$

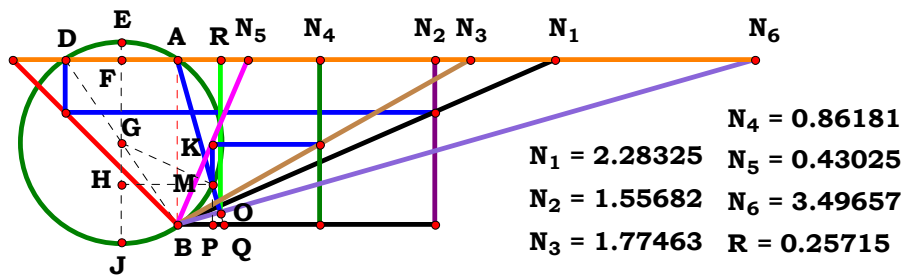
$$Num := \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot N_u \cdot (C^2 + N_u^2)]^2}}$$

$$Den := \frac{E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]}{\sqrt{[E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{B \cdot N_u \cdot \sqrt{E^2 \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]^2} \cdot (C^2 + N_u^2)}{E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)] \cdot \sqrt{B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



Unit.
AB
:=
1
Given.
N1
:=
2.28325
N2
:=
1.55682
N3
:=
1.77463
N4
:=
.86181
N5
:=
.43025
N6
:=
3.49657
Nu
:=
3
A
:=
NuN1
B
:=
NuN2
C
:=
NuN3
D
:=
NuN4
E
:=
NuN5
F
:=
NuN6

Descriptions.

$$\frac{2 \cdot C \cdot N_u \cdot \sqrt{B}}{\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E)} = 0.25716$$

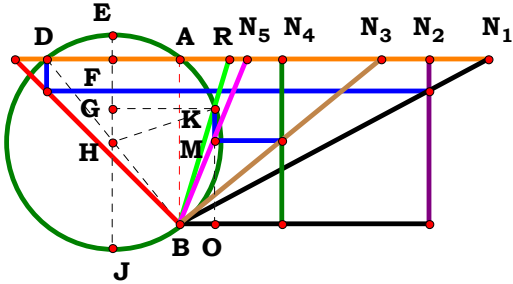
$$\text{Num} := \frac{2 \cdot C \cdot N_u \cdot \sqrt{B}}{\sqrt{(2 \cdot C \cdot N_u \cdot \sqrt{B})^2}}$$

$$\text{Den} := \frac{\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E)}{\sqrt{\left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num
=
1
Den
=
1
L
=
1

$$L - \frac{\sqrt{B} \cdot C \cdot N_u \cdot \sqrt{\left[\sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} \right]^2}}{\left[\sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} \right] \cdot \sqrt{B \cdot C^2 \cdot N_u^2}} = 0$$



N₁ = 1.86676
N₂ = 1.50839
N₃ = 1.22254
N₄ = 0.61966
N₅ = 0.41087
R = 0.29929

Unit.
AB := 1
Given.
N₁ := 1.86676
N₂ := 1.50839
N₃ := 1.22254
N₄ := .61966
N₅ := .41087

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$

Descriptions.

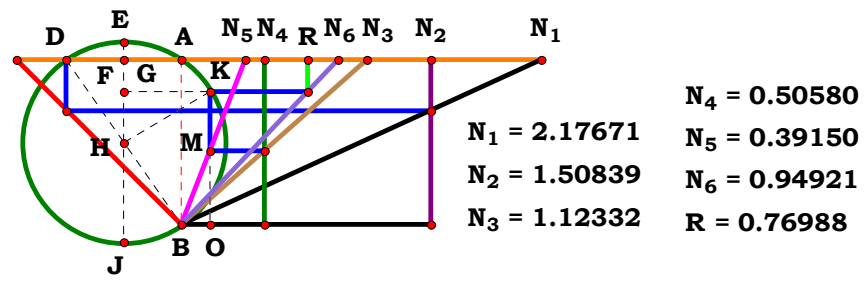
$$\frac{\sqrt{B}\cdot\left[\sqrt{B\cdot D\cdot E}-\sqrt{B\cdot D^2\cdot E^2-4\cdot C\cdot N_u\cdot\left(A\cdot D\cdot E+B\cdot C\cdot N_u\right)}\right]}{2\cdot\left(A\cdot D\cdot E+B\cdot C\cdot N_u\right)}=0.299284$$

$$\text{Num}:=\frac{\sqrt{B}\cdot\left[\sqrt{B\cdot D\cdot E}-\sqrt{B\cdot D^2\cdot E^2-4\cdot C\cdot N_u\cdot\left(A\cdot D\cdot E+B\cdot C\cdot N_u\right)}\right]}{\sqrt{\left[\sqrt{B}\cdot\left[\sqrt{B\cdot D\cdot E}-\sqrt{B\cdot D^2\cdot E^2-4\cdot C\cdot N_u\cdot\left(A\cdot D\cdot E+B\cdot C\cdot N_u\right)}\right]\right]^2}}$$

Den := $\frac{2\cdot\left(A\cdot D\cdot E+B\cdot C\cdot N_u\right)}{\sqrt{\left[2\cdot\left(A\cdot D\cdot E+B\cdot C\cdot N_u\right)\right]^2}}$
L := $\frac{\text{Num}}{\text{Den}}$

Num = 1
Den = 1
L = 1

$$L-\frac{\sqrt{B}\cdot\left[\sqrt{B\cdot D\cdot E}-\sqrt{B\cdot D^2\cdot E^2-4\cdot C\cdot N_u\cdot\left(A\cdot D\cdot E+B\cdot C\cdot N_u\right)}\right]\cdot\sqrt{\left(2\cdot A\cdot D\cdot E+2\cdot B\cdot C\cdot N_u\right)^2}}{\left(2\cdot A\cdot D\cdot E+2\cdot B\cdot C\cdot N_u\right)\cdot\sqrt{B\cdot\left[\sqrt{B\cdot D\cdot E}-\sqrt{B\cdot D^2\cdot E^2-4\cdot C\cdot N_u\cdot\left(A\cdot D\cdot E+B\cdot C\cdot N_u\right)}\right]^2}}=0$$



Unit. $AB := 1$ Given. $N_1 := 2.17671$ $N_2 := 1.50839$ $N_3 := 1.12332$

$N_4 := .50580$ $N_5 := .39150$ $N_6 := .94921$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B \cdot D \cdot E} \right]}{2 \cdot F \cdot \sqrt{B \cdot D \cdot E}} = 0.76988$$

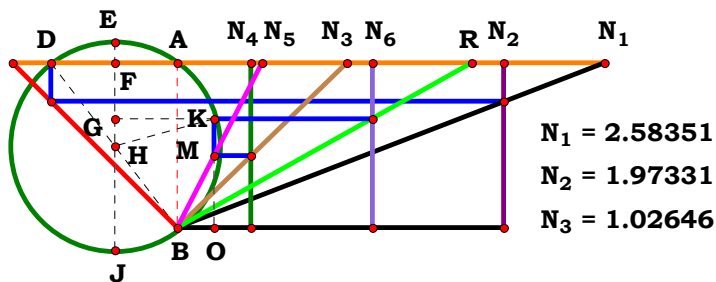
$$Num := \frac{N_u \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B \cdot D \cdot E} \right]}{\sqrt{\left[N_u \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B \cdot D \cdot E} \right] \right]^2}}$$

$$Den := \frac{2 \cdot F \cdot \sqrt{B \cdot D \cdot E}}{\sqrt{(2 \cdot F \cdot \sqrt{B \cdot D \cdot E})^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B \cdot D \cdot E} \right] \cdot \sqrt{B \cdot D^2 \cdot E^2 \cdot F^2}}{\sqrt{B \cdot D \cdot E} \cdot F \cdot \sqrt{N_u^2 \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B \cdot D \cdot E} \right]^2}} = 0$$



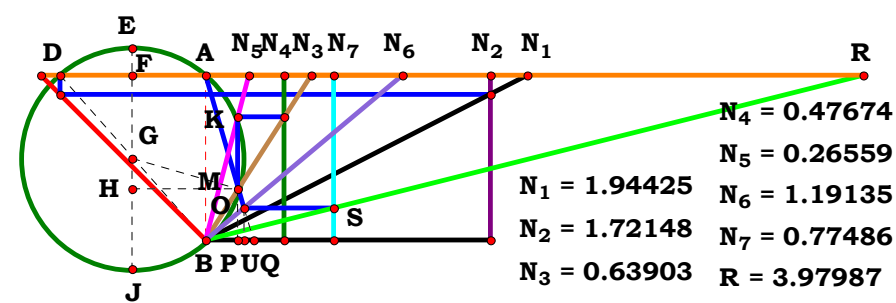
Unit. AB := 1 Given. $N_1 := 2.58351$ $N_2 := 1.97331$ $N_3 := 1.02646$

$N_4 := .44768$ $N_5 := .51742$ $N_6 := 1.18167$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

$$\begin{aligned} \text{Num} &:= \frac{2 \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}}}{\sqrt{\left(2 \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}}\right)^2}} \\ \text{Den} &:= \frac{\mathbf{F} \cdot \left[\sqrt{\mathbf{B} \cdot \mathbf{D}^2 \cdot \mathbf{E}^2 - 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})} + \sqrt{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}}\right]}{\sqrt{\left[\mathbf{F} \cdot \left[\sqrt{\mathbf{B} \cdot \mathbf{D}^2 \cdot \mathbf{E}^2 - 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})} + \sqrt{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}}\right]\right]^2}} \end{aligned}$$

$$\mathbf{L} - \frac{\sqrt{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}}} \cdot \sqrt{\mathbf{F}^2 \cdot \left[\sqrt{\mathbf{B} \cdot \mathbf{D}^2 \cdot \mathbf{E}^2 - 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})} + \sqrt{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}} \right]^2}}{\mathbf{F} \cdot \left[\sqrt{\mathbf{B} \cdot \mathbf{D}^2 \cdot \mathbf{E}^2 - 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}})} + \sqrt{\mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}} \right] \cdot \sqrt{\mathbf{B} \cdot \mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \mathbf{N}_{\mathbf{u}}^2}} = 0$$



Unit.

AB := 1

Given.

N₁ := 1.94425

N₂ := 1.72148

N₃ := .63903

N₄ := .47674

N₅ := .26559

N₆ := 1.19135

N₇ := .77486

N_u := 3

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

E := $\frac{N_u}{N_5}$

F := $\frac{N_u}{N_6}$

G := $\frac{N_u}{N_7}$

Descriptions.

$$\frac{N_u \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E) \right]}{2 \cdot C \cdot F \cdot G \cdot \sqrt{B}}$$

= 3.979731

$$Num := \frac{N_u \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E) \right]}{\sqrt{\left[N_u \cdot \left[\sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} + \sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E) \right] \right]^2}}$$

$$Den := \frac{2 \cdot C \cdot F \cdot G \cdot \sqrt{B}}{\sqrt{(2 \cdot C \cdot F \cdot G \cdot \sqrt{B})^2}}$$

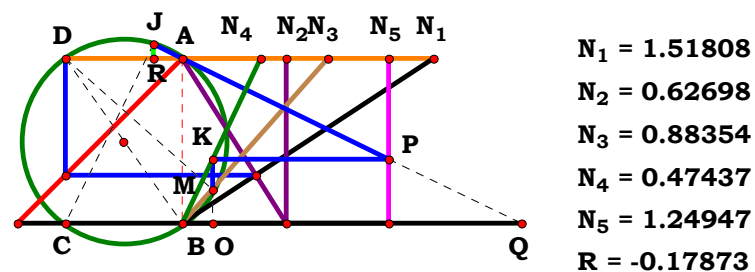
$$L := \frac{Num}{Den}$$

Num = 1

Den = 1

L = 1

$$L - \frac{N_u \cdot \left[\sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} \right] \cdot \sqrt{B \cdot C^2 \cdot F^2 \cdot G^2}}{\sqrt{B} \cdot C \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot \left[\sqrt{B} \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{B \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot (A \cdot D \cdot E + B \cdot C \cdot N_u)} \right]^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 1.51808$ $N_2 := .62698$ $N_3 := .88354$
 $N_4 := .47437$ $N_5 := 1.24947$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

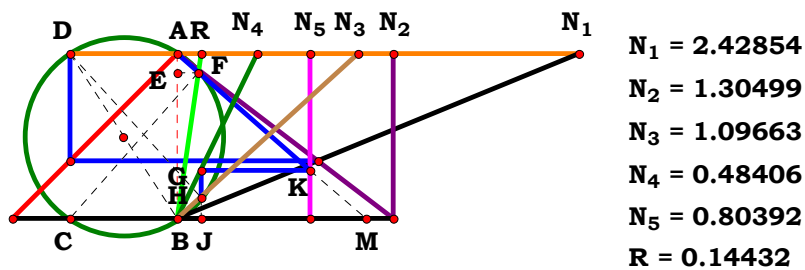
$$\frac{\mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B}) \cdot \left[[\mathbf{E} \cdot (\mathbf{A} + \mathbf{B})] \cdot \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{N_u} \cdot (\mathbf{C}^2 - \mathbf{D} \cdot \mathbf{E}) - \mathbf{B} \cdot \mathbf{N_u}^3 + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right]}{\mathbf{E}^2 \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{N_u}^2 + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u} + \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right]^2 + \mathbf{N_u}^2 \cdot (\mathbf{C}^2 + \mathbf{N_u}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2} = -0.178733$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B}) \cdot \left[[\mathbf{E} \cdot (\mathbf{A} + \mathbf{B})] \cdot \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{N_u} \cdot (\mathbf{C}^2 - \mathbf{D} \cdot \mathbf{E}) - \mathbf{B} \cdot \mathbf{N_u}^3 + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right]}{\sqrt{\left[\mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B}) \cdot \left[[\mathbf{E} \cdot (\mathbf{A} + \mathbf{B})] \cdot \mathbf{N_u}^2 - \mathbf{B} \cdot \mathbf{N_u} \cdot (\mathbf{C}^2 - \mathbf{D} \cdot \mathbf{E}) - \mathbf{B} \cdot \mathbf{N_u}^3 + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right] \right]^2}}$$

$$\text{Den} := \frac{\mathbf{E}^2 \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right]^2 + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2}{\sqrt{\left[\mathbf{E}^2 \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right]^2 + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2 \right]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = -1 Den = 1 L = -1

$$\mathbf{L} - \frac{\sqrt{\left[\mathbf{E}^2 \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} - \mathbf{D}) \right]^2 + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2 \right]^2 \cdot \left[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B}) \cdot \left[[\mathbf{E} \cdot (\mathbf{A} + \mathbf{B})] \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 - \mathbf{D} \cdot \mathbf{E}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^3 + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right] \right]^2}}{\left[\mathbf{E}^2 \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} - \mathbf{D}) \right]^2 + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2 \right] \cdot \sqrt{\left[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B}) \cdot \left[[\mathbf{E} \cdot (\mathbf{A} + \mathbf{B})] \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 - \mathbf{D} \cdot \mathbf{E}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^3 + \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) \right] \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.42854$ $N_2 := 1.30499$ $N_3 := 1.09663$

$N_4 := .48406$ $N_5 := .80392$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{(A+B) \cdot \left[E \cdot \left[(C^2 + N_u^2) \cdot (A+B) - D \cdot [C \cdot (A+B) - B \cdot N_u] \right] - (B \cdot C^2 \cdot N_u + B \cdot N_u^3) \right]}{E \cdot B \cdot \left[(C^2 + N_u^2) \cdot (A+B) - D \cdot [C \cdot (A+B) - B \cdot N_u] \right] + N_u \cdot (C^2 + N_u^2) \cdot (A+B)^2} = 0.144317$$

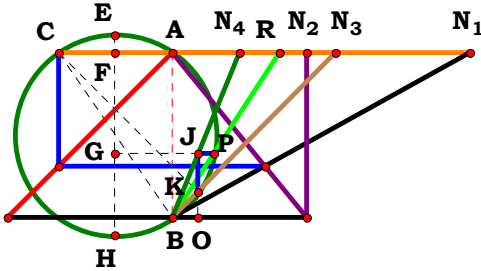
$$\text{Num} := \frac{(A+B) \cdot \left[E \cdot \left[(C^2 + N_u^2) \cdot (A+B) - D \cdot [C \cdot (A+B) - B \cdot N_u] \right] - (B \cdot C^2 \cdot N_u + B \cdot N_u^3) \right]}{\sqrt{\left[(A+B) \cdot \left[E \cdot \left[(C^2 + N_u^2) \cdot (A+B) - D \cdot [C \cdot (A+B) - B \cdot N_u] \right] - (B \cdot C^2 \cdot N_u + B \cdot N_u^3) \right] \right]^2}}$$

$$\text{Den} := \frac{E \cdot B \cdot \left[(C^2 + N_u^2) \cdot (A+B) - D \cdot [C \cdot (A+B) - B \cdot N_u] \right] + N_u \cdot (C^2 + N_u^2) \cdot (A+B)^2}{\sqrt{\left[E \cdot B \cdot \left[(C^2 + N_u^2) \cdot (A+B) - D \cdot [C \cdot (A+B) - B \cdot N_u] \right] + N_u \cdot (C^2 + N_u^2) \cdot (A+B)^2 \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{\left[B \cdot E \cdot \left[D \cdot [C \cdot (A+B) - B \cdot N_u] - (C^2 + N_u^2) \cdot (A+B) \right] - N_u \cdot (C^2 + N_u^2) \cdot (A+B)^2 \right]^2} \cdot (A+B) \cdot \left[E \cdot \left[D \cdot [C \cdot (A+B) - B \cdot N_u] - (C^2 + N_u^2) \cdot (A+B) \right] + B \cdot N_u^3 + B \cdot C^2 \cdot N_u \right]}{\left[B \cdot E \cdot \left[D \cdot [C \cdot (A+B) - B \cdot N_u] - (C^2 + N_u^2) \cdot (A+B) \right] - N_u \cdot (C^2 + N_u^2) \cdot (A+B)^2 \right] \cdot \sqrt{(A+B)^2 \cdot \left[E \cdot \left[D \cdot [C \cdot (A+B) - B \cdot N_u] - (C^2 + N_u^2) \cdot (A+B) \right] + B \cdot N_u^3 + B \cdot C^2 \cdot N_u \right]^2}} = 0$$



N₁ = 1.79896
N₂ = 0.81101
N₃ = 0.99009
N₄ = 0.40657
R = 0.64704

Unit. AB := 1 Given. N₁ := 1.79896 N₂ := .81101 N₃ := .99009

N₄ := .40657

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

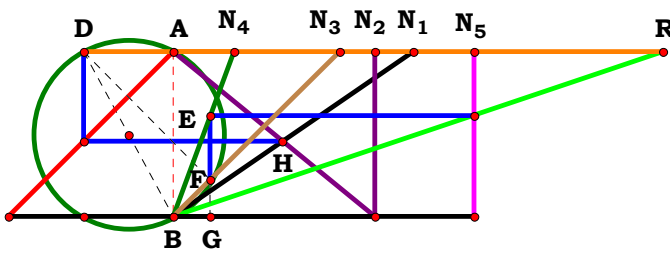
$$\frac{\sqrt{4 \cdot D \cdot \left[C \cdot (A + B) - B \cdot N_u\right] \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - B \cdot N_u\right]\right] + B^2 \cdot \left(C^2 + N_u^2\right)^2 - B \cdot \left(C^2 + N_u^2\right)}}{2 \cdot D \cdot \left[C \cdot (A + B) - B \cdot N_u\right]} = \mathbf{0.647038}$$

$$\mathbf{Num} := \frac{\sqrt{4 \cdot D \cdot \left[C \cdot (A + B) - B \cdot N_u\right] \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - B \cdot N_u\right]\right] + B^2 \cdot \left(C^2 + N_u^2\right)^2 - B \cdot \left(C^2 + N_u^2\right)}}{\sqrt{\left[\sqrt{4 \cdot D \cdot \left[C \cdot (A + B) - B \cdot N_u\right] \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - B \cdot N_u\right]\right] + B^2 \cdot \left(C^2 + N_u^2\right)^2 - B \cdot \left(C^2 + N_u^2\right)}\right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot D \cdot \left[C \cdot (A + B) - B \cdot N_u\right]}{\sqrt{\left[2 \cdot D \cdot \left[C \cdot (A + B) - B \cdot N_u\right]\right]^2}} \qquad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{D^2 \cdot \left[C \cdot (A + B) - B \cdot N_u\right]^2 \cdot \left[\sqrt{4 \cdot D \cdot \left[C \cdot (A + B) - B \cdot N_u\right] \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - B \cdot N_u\right]\right] + B^2 \cdot \left(C^2 + N_u^2\right)^2 - B \cdot \left(C^2 + N_u^2\right)}\right]}}{D \cdot \sqrt{\left[\sqrt{4 \cdot D \cdot \left[C \cdot (A + B) - B \cdot N_u\right] \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - B \cdot N_u\right]\right] + B^2 \cdot \left(C^2 + N_u^2\right)^2 - B \cdot \left(C^2 + N_u^2\right)}\right]^2 \cdot \left[C \cdot (A + B) - B \cdot N_u\right]}} = \mathbf{0}$$



$N_1 = 1.45027$
 $N_2 = 1.21782$
 $N_3 = 1.00946$
 $N_4 = 0.36783$
 $N_5 = 1.82093$
 $R = 2.96844$

Unit. $AB := 1$ Given. $N_1 := 1.45027$ $N_2 := 1.21782$ $N_3 := 1.00946$
 $N_4 := .36783$ $N_5 := 1.82093$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]} = 2.968434$$

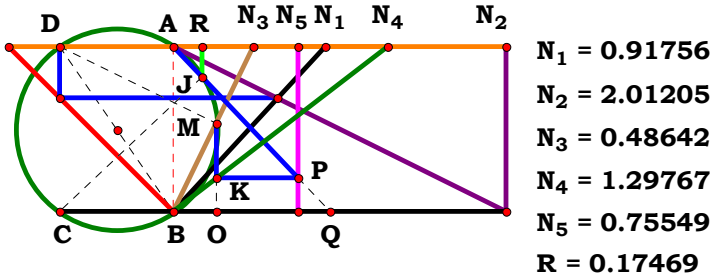
$$Num := \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$

$$Den := \frac{D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]}{\sqrt{[D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{D^2 \cdot E^2 \cdot [C \cdot (A + B) - B \cdot N_u]^2}}{D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u] \cdot \sqrt{N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



$$\begin{array}{l} \text{Unit. } AB := 1 \quad \text{Given. } N_1 := .91756 \quad N_2 := 2.01206 \quad N_3 := .48642 \\ N_4 := 1.29767 \quad N_5 := .75549 \\ N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \end{array}$$

Descriptions.

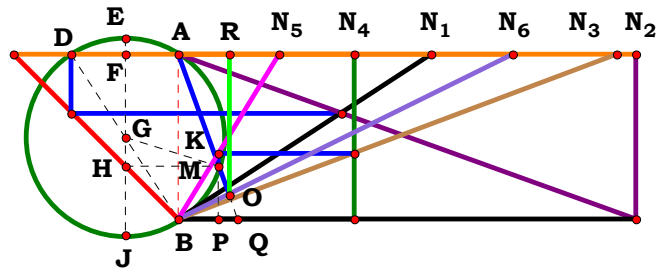
$$\frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left[C^2 \cdot E \cdot (A + B) - A \cdot N_u \cdot \left[C^2 - N_u \cdot (E - N_u)\right] + E \cdot N_u \cdot (A \cdot D + B \cdot N_u) - C \cdot D \cdot E \cdot (A + B)\right]}{E^2 \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u\right]\right]^2 + N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2} = 0.174688$$

$$\text{Num} := \frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left[C^2 \cdot E \cdot (A + B) - A \cdot N_u \cdot \left[C^2 - N_u \cdot (E - N_u)\right] + E \cdot N_u \cdot (A \cdot D + B \cdot N_u) - C \cdot D \cdot E \cdot (A + B)\right]}{\sqrt{\left[N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left[C^2 \cdot E \cdot (A + B) - A \cdot N_u \cdot \left[C^2 - N_u \cdot (E - N_u)\right] + E \cdot N_u \cdot (A \cdot D + B \cdot N_u) - C \cdot D \cdot E \cdot (A + B)\right]\right]^2}}$$

$$\text{Den} := \frac{E^2 \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u\right]\right]^2 + N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2}{\sqrt{\left[E^2 \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u\right]\right]^2 + N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \sqrt{\left[E^2 \cdot \left[C^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u\right] + N_u^2 \cdot (A + B)\right]^2 + N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2\right]^2 \cdot \left[\begin{array}{l} C^2 \cdot E \cdot (A + B) - A \cdot N_u \cdot \left[C^2 - N_u \cdot (E - N_u)\right] \dots \\ + E \cdot N_u \cdot (A \cdot D + B \cdot N_u) - C \cdot D \cdot E \cdot (A + B) \end{array}\right]}}{\left[E^2 \cdot \left[C^2 \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u\right] + N_u^2 \cdot (A + B)\right]^2 + N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2\right] \cdot \sqrt{N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2 \cdot \left[\begin{array}{l} C^2 \cdot E \cdot (A + B) - A \cdot N_u \cdot \left[C^2 - N_u \cdot (E - N_u)\right] \dots \\ + E \cdot N_u \cdot (A \cdot D + B \cdot N_u) - C \cdot D \cdot E \cdot (A + B) \end{array}\right]^2}} = 0$$



N₁ = 1.52776
N₂ = 2.76754
N₃ = 2.65604
N₄ = 1.06521
N₅ = 0.61020
N₆ = 2.02433
R = 0.30553

Unit. AB := 1 Given. N₁ := 1.52776 N₂ := 2.76754 N₃ := 2.65604
N₄ := 1.06521 N₅ := .61020 N₆ := 2.02433
N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$ F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot C \cdot N_u \cdot (A + B)}{\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B) + (2 \cdot C \cdot F + D \cdot E) \cdot (A + B)}} = 0.305528$$

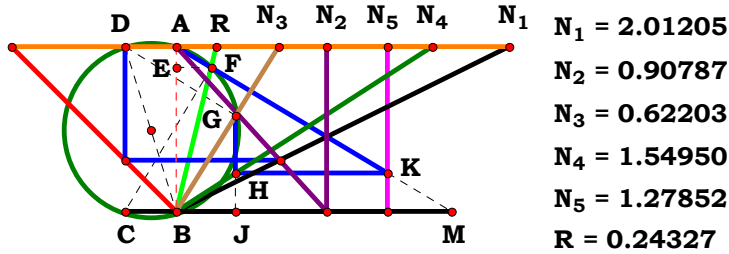
$$\text{Num} := \frac{2 \cdot C \cdot N_u \cdot (A + B)}{\sqrt{\left[2 \cdot C \cdot N_u \cdot (A + B) \right]^2}}$$

$$\text{Den} := \frac{\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B) + (2 \cdot C \cdot F + D \cdot E) \cdot (A + B)}}{\sqrt{\left[\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B) + (2 \cdot C \cdot F + D \cdot E) \cdot (A + B)} \right]^2}}$$

$$\text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\text{L} - \frac{C \cdot N_u \cdot \sqrt{\left[(A + B) \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B)} \right]^2 \cdot (A + B)}}{\left[(A + B) \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B)} \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + B)^2}} = 0$$



$$\begin{array}{l} \text{Unit.} \quad \text{AB} := 1 \quad \text{Given.} \quad \text{N}_1 := 2.01205 \quad \text{N}_2 := .90787 \quad \text{N}_3 := .62203 \\ \text{N}_4 := 1.54950 \quad \text{N}_5 := 1.27852 \\ \text{N}_{\mathbf{u}} := 3 \quad \text{A} := \frac{\text{N}_{\mathbf{u}}}{\text{N}_1} \quad \text{B} := \frac{\text{N}_{\mathbf{u}}}{\text{N}_2} \quad \text{C} := \frac{\text{N}_{\mathbf{u}}}{\text{N}_3} \quad \text{D} := \frac{\text{N}_{\mathbf{u}}}{\text{N}_4} \quad \text{E} := \frac{\text{N}_{\mathbf{u}}}{\text{N}_5} \end{array}$$

Descriptions.

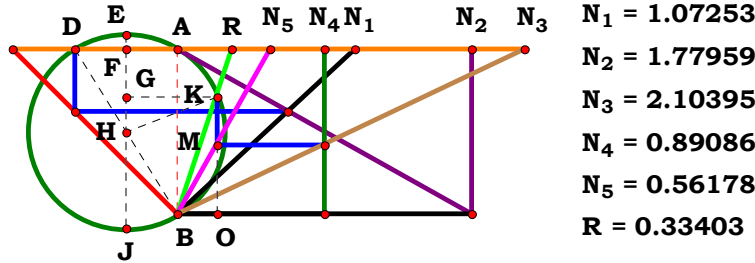
$$\frac{(\mathbf{A} + \mathbf{B}) \cdot \left[\mathbf{E} \cdot \left[\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \text{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] - \left[\mathbf{A} \cdot \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \right] \right]}{\mathbf{E} \cdot \mathbf{A} \cdot \left[\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \text{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] + \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \cdot (\mathbf{A} + \mathbf{B})^2} = \mathbf{0.243275}$$

$$\mathbf{Num} := \frac{(\mathbf{A} + \mathbf{B}) \cdot \left[\mathbf{E} \cdot \left[\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \text{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] - \left[\mathbf{A} \cdot \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \right] \right]}{\sqrt{\left[(\mathbf{A} + \mathbf{B}) \cdot \left[\mathbf{E} \cdot \left[\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \text{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] - \left[\mathbf{A} \cdot \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \right] \right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{E} \cdot \mathbf{A} \cdot \left[\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \text{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] + \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \cdot (\mathbf{A} + \mathbf{B})^2}{\sqrt{\left[\mathbf{E} \cdot \mathbf{A} \cdot \left[\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \text{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{C} \cdot \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] + \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \cdot (\mathbf{A} + \mathbf{B})^2 \right]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{Num} = \mathbf{1} \quad \mathbf{Den} = \mathbf{1} \quad \mathbf{L} = \mathbf{1}$$

$$\mathbf{L} - \frac{\sqrt{\left[\mathbf{A} \cdot \mathbf{E} \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^2 - \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{C} + (\mathbf{A} + \mathbf{B}) \cdot \text{N}_{\mathbf{u}}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] + \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \cdot (\mathbf{A} + \mathbf{B})^2 \right]^2} \cdot (\mathbf{A} + \mathbf{B}) \cdot \left[\mathbf{E} \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^2 - \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{C} + (\mathbf{A} + \mathbf{B}) \cdot \text{N}_{\mathbf{u}}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] - \mathbf{A} \cdot \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \right]}{\sqrt{(\mathbf{A} + \mathbf{B})^2 \cdot \left[\mathbf{E} \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^2 - \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{C} + (\mathbf{A} + \mathbf{B}) \cdot \text{N}_{\mathbf{u}}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] - \mathbf{A} \cdot \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \right]^2} \cdot \left[\mathbf{A} \cdot \mathbf{E} \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^2 - \mathbf{D} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{C} + (\mathbf{A} + \mathbf{B}) \cdot \text{N}_{\mathbf{u}}^2 + \mathbf{A} \cdot \mathbf{D} \cdot \text{N}_{\mathbf{u}} \right] + \text{N}_{\mathbf{u}} \cdot \left(\mathbf{C}^2 + \text{N}_{\mathbf{u}}^2 \right) \cdot (\mathbf{A} + \mathbf{B})^2 \right]} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.07253$ $N_2 := 1.77959$ $N_3 := 2.10395$

$N_4 := .89086$ $N_5 := .56178$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

Descriptions.

$$\frac{2 \cdot C \cdot N_u \cdot (A + B)}{\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B) + D \cdot E \cdot (A + B)}} = 0.334028$$

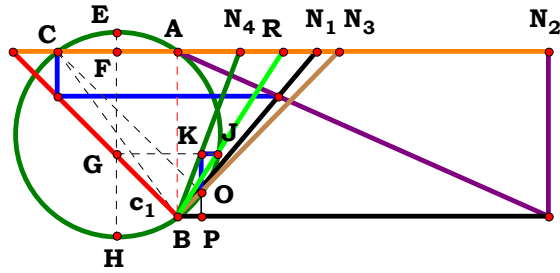
$$Den := \frac{\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B) + D \cdot E \cdot (A + B)}}{\sqrt{\left[\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B) + D \cdot E \cdot (A + B)} \right]^2}}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{C \cdot N_u \cdot \sqrt{\left[\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B) + D \cdot E \cdot (A + B)} \right]^2 \cdot (A + B)}}{\left[\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \right] \cdot (A + B) + D \cdot E \cdot (A + B)} \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + B)^2}} = 0$$

$$Num := \frac{2 \cdot C \cdot N_u \cdot (A + B)}{\sqrt{\left[2 \cdot C \cdot N_u \cdot (A + B) \right]^2}}$$

$$L := \frac{Num}{Den}$$



$N_1 = 0.84007$
 $N_2 = 2.24451$
 $N_3 = 0.98040$
 $N_4 = 0.37752$
 $R = 0.63945$

Unit. $AB := 1$ Given. $N_1 := .84007$ $N_2 := 2.24451$ $N_3 := .98040$

$N_4 := .37752$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

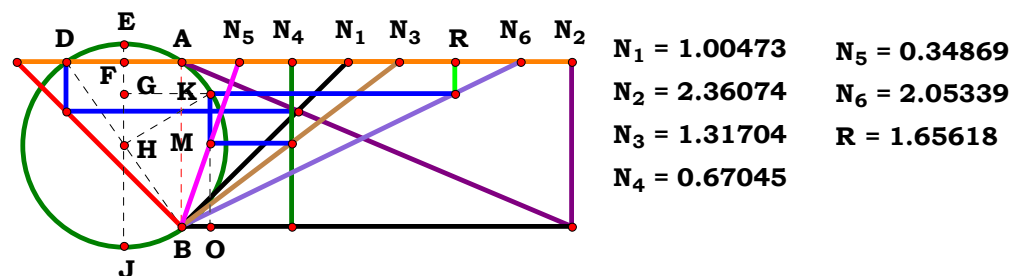
$$\frac{\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] \cdot [(A + B) \cdot C^2 - D \cdot (A + B) \cdot C + (A + B) \cdot N_u^2 + A \cdot D \cdot N_u]} - A \cdot (C^2 + N_u^2)}{2 \cdot D \cdot (A \cdot C + B \cdot C - A \cdot N_u)} = 0.63945$$

$$\text{Num} := \frac{\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] \cdot [(A + B) \cdot C^2 - D \cdot (A + B) \cdot C + (A + B) \cdot N_u^2 + A \cdot D \cdot N_u]} - A \cdot (C^2 + N_u^2)}{\sqrt{\left[\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] \cdot [(A + B) \cdot C^2 - D \cdot (A + B) \cdot C + (A + B) \cdot N_u^2 + A \cdot D \cdot N_u]} - A \cdot (C^2 + N_u^2) \right]^2}}$$

$$\text{Den} := \frac{2 \cdot D \cdot (A \cdot C + B \cdot C - A \cdot N_u)}{\sqrt{[2 \cdot D \cdot (A \cdot C + B \cdot C - A \cdot N_u)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$

$$L - \frac{\left[\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] \cdot [(A + B) \cdot C^2 - D \cdot (A + B) \cdot C + (A + B) \cdot N_u^2 + A \cdot D \cdot N_u]} - A \cdot C^2 - A \cdot N_u^2 \right] \cdot \sqrt{D^2 \cdot (A \cdot C + B \cdot C - A \cdot N_u)^2}}{D \cdot \sqrt{\left[A \cdot (C^2 + N_u^2) - \sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot D \cdot [C \cdot (A + B) - A \cdot N_u] \cdot [(A + B) \cdot C^2 - D \cdot (A + B) \cdot C + (A + B) \cdot N_u^2 + A \cdot D \cdot N_u]} \right]^2} \cdot (A \cdot C + B \cdot C - A \cdot N_u)} = 0$$



$$\begin{array}{l} \text{Unit.} \quad \mathbf{AB} := 1 \quad \text{Given.} \quad \mathbf{N_1} := 1.00473 \quad \mathbf{N_2} := 2.36074 \quad \mathbf{N_3} := 1.31704 \\ \mathbf{N_4} := .67045 \quad \mathbf{N_5} := .34869 \quad \mathbf{N_6} := 2.05339 \\ \mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}} \end{array}$$

Descriptions.

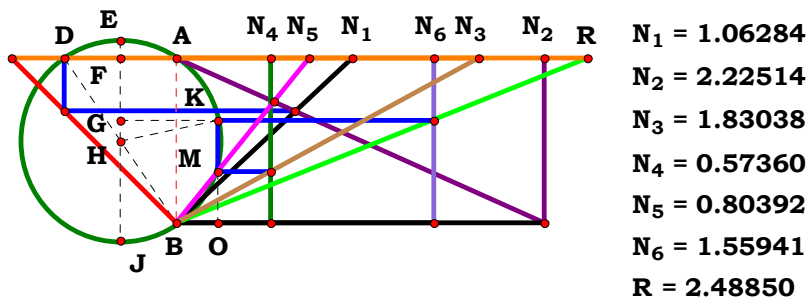
$$\frac{\mathbf{N_u} \cdot \left[\sqrt{\left[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} + \mathbf{B}) - 4 \cdot \mathbf{C} \cdot \mathbf{N_u} \cdot \left[\mathbf{C} \cdot \mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \right] \right]} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} + \mathbf{B}) \right]}{2 \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{D} \cdot \mathbf{E}} = 1.656189$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot \left[\sqrt{\left[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} + \mathbf{B}) - 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \right] \right] \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} + \mathbf{B})} \right]}{\sqrt{\left[\mathbf{N}_{\mathbf{u}} \cdot \left[\sqrt{\left[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} + \mathbf{B}) - 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \right] \right] \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} + \mathbf{B})} \right] \right]^2}$$

$$\text{Den} := \frac{2 \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{D} \cdot \mathbf{E}}{\sqrt{[2 \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B}) \cdot \mathbf{D} \cdot \mathbf{E}]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_u \cdot \left[\sqrt{\left[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} + \mathbf{B}) - 4 \cdot \mathbf{C} \cdot \mathbf{N}_u \cdot \left[\mathbf{C} \cdot \mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \right] \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} + \mathbf{B}) \right]} \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \mathbf{F}^2 \cdot (\mathbf{A} + \mathbf{B})^2} \right]}{\mathbf{D} \cdot \mathbf{E} \cdot \mathbf{F} \cdot \sqrt{\mathbf{N}_u^2 \cdot \left[\sqrt{\left[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} + \mathbf{B}) - 4 \cdot \mathbf{C} \cdot \mathbf{N}_u \cdot \left[\mathbf{C} \cdot \mathbf{N}_u \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \right] \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} + \mathbf{B}) \right]^2 \cdot (\mathbf{A} + \mathbf{B})}} \right]} = 0$$



Unit.

AB := 1

Given.

N₁ := 1.06284

N₂ := 2.22514

N₃ := 1.83038

N₄ := .57360

N₅ := .80392

N₆ := 1.55941

N_u := 3

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

E := $\frac{N_u}{N_5}$

F := $\frac{N_u}{N_6}$

Descriptions.

2 · N_u · (A + B) · D · E

F · $\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E\right] \cdot (A + B) + D \cdot E \cdot (A + B)\right]}$

= 2.488535

Den :=

F · $\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E\right] \cdot (A + B) + D \cdot E \cdot (A + B)\right]}$

$\sqrt{\left[F \cdot \sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E\right] \cdot (A + B) + D \cdot E \cdot (A + B)\right]}\right]^2}$

Num :=

2 · N_u · (A + B) · D · E

$\sqrt{\left[2 \cdot N_u \cdot (A + B) \cdot D \cdot E\right]^2}$

L :=

Num

Den

Num = 1

Den = 1

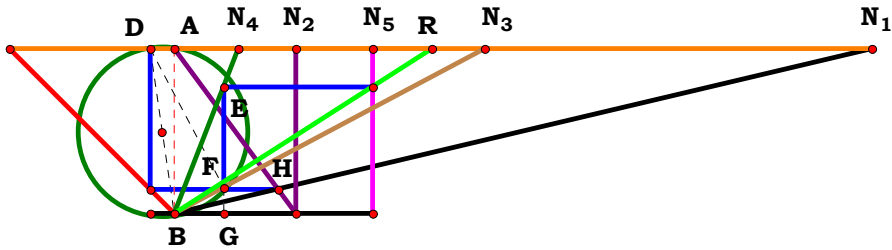
L = 1

L -

D · E · N_u · $\sqrt{F^2 \cdot \left[\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E\right] \cdot (A + B) + D \cdot E \cdot (A + B)\right]^2 \cdot (A + B)}\right]}$

$F \cdot \sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E\right] \cdot (A + B) + D \cdot E \cdot (A + B)\right]} \cdot \sqrt{D^2 \cdot E^2 \cdot N_u^2 \cdot (A + B)^2}$

= 0



$N_1 = 4.22041$
 $N_2 = 0.73353$
 $N_3 = 1.88118$
 $N_4 = 0.38720$
 $N_5 = 1.20104$
 $R = 1.55525$

Unit. $AB := 1$ Given. $N_1 := 4.22041$ $N_2 := .73353$ $N_3 := 1.88118$

$N_4 := .38720$ $N_5 := 1.20104$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u]} = 1.555245$$

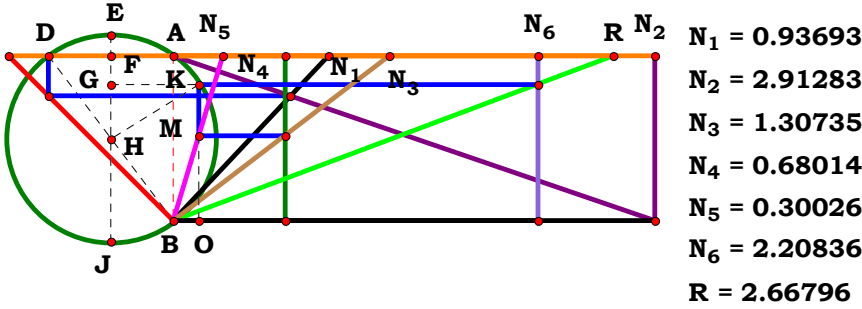
$$Num := \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$

$$Den := \frac{D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u]}{\sqrt{[D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u]]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{D^2 \cdot E^2 \cdot [C \cdot (A + B) - A \cdot N_u]^2}}{D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u] \cdot \sqrt{N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := .93693
N₂ := 2.91283
N₃ := 1.30735
N₄ := .68014
N₅ := .30026
N₆ := 2.20836

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot N_u \cdot (A + B) \cdot D \cdot E}{F \cdot \left[\sqrt{D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right]} \cdot (A + B) + D \cdot E \cdot (A + B) \right]} = 2.667968$$

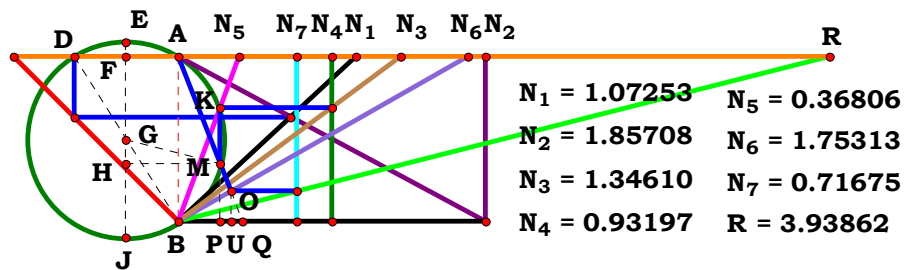
$$Num := \frac{2 \cdot N_u \cdot (A + B) \cdot D \cdot E}{\sqrt{\left[2 \cdot N_u \cdot (A + B) \cdot D \cdot E \right]^2}}$$

$$Den := \frac{F \cdot \left[\sqrt{D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right]} \cdot (A + B) + D \cdot E \cdot (A + B) \right]}{\sqrt{\left[F \cdot \left[\sqrt{D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right]} \cdot (A + B) + D \cdot E \cdot (A + B) \right] \right]^2}}$$

L := $\frac{Num}{Den}$

Num = 1
Den = 1
L = 1

$$L - \frac{D \cdot E \cdot N_u \cdot \sqrt{F^2 \cdot \left[\sqrt{D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right]} \cdot (A + B) + D \cdot E \cdot (A + B) \right]^2 \cdot (A + B)}}{F \cdot \left[\sqrt{D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right]} \cdot (A + B) + D \cdot E \cdot (A + B) \right] \cdot \sqrt{D^2 \cdot E^2 \cdot N_u^2 \cdot (A + B)^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.07253
N₂ := 1.85708
N₃ := 1.34610
N₄ := .93197

N₅ := .36806
N₆ := 1.75313
N₇ := .71675

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$
G := $\frac{N_u}{N_7}$

Descriptions.

$$\frac{N_u \cdot \left[\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \cdot (A + B) + (2 \cdot C \cdot F + D \cdot E) \cdot (A + B) \right]} \right]}{2 \cdot C \cdot F \cdot G \cdot (A + B)} = 3.938664$$

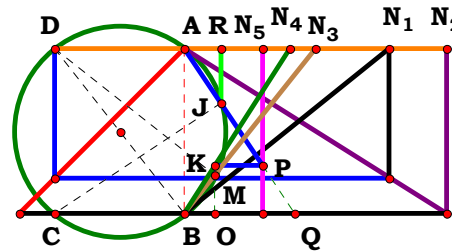
$$Num := \frac{N_u \cdot \left[\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \cdot (A + B) + (2 \cdot C \cdot F + D \cdot E) \cdot (A + B) \right]} \right]}{\sqrt{\left[N_u \cdot \left[\sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \cdot (A + B) + (2 \cdot C \cdot F + D \cdot E) \cdot (A + B) \right]} \right]^2}}$$

$$Den := \frac{2 \cdot C \cdot F \cdot G \cdot (A + B)}{\sqrt{\left[2 \cdot C \cdot F \cdot G \cdot (A + B) \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1
Den = 1
L = 1

$$L - \frac{N_u \cdot \left[(A + B) \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \cdot (A + B) \right]} \cdot \sqrt{C^2 \cdot F^2 \cdot G^2 \cdot (A + B)^2} \right]}{C \cdot F \cdot G \cdot \sqrt{N_u^2 \cdot \left[(A + B) \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{\left[D^2 \cdot E^2 \cdot (A + B) - 4 \cdot C \cdot N_u \cdot \left[C \cdot N_u \cdot (A + B) + A \cdot D \cdot E \right] \cdot (A + B) \right]} \cdot (A + B) \right]^2 \cdot (A + B)}} = 0$$



Unit. AB := 1 Given. $N_1 := 1.23719$ $N_2 := 1.58588$ $N_3 := .79637$
 $N_4 := .63903$ $N_5 := .47460$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

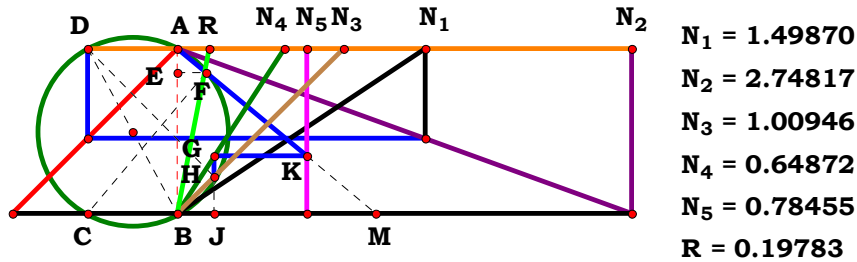
$$\frac{\mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot \mathbf{A} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) + \mathbf{E} \cdot \mathbf{N_u} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N_u})]}{\mathbf{E}^2 \cdot [\mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{N_u} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N_u})]^2 + \mathbf{A}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{C}^2 + \mathbf{N_u}^2)^2} = \mathbf{0.221344}$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot \mathbf{A} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) + \mathbf{E} \cdot \mathbf{N_u} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N_u})]}{\sqrt{[\mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot \mathbf{A} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) - \mathbf{B} \cdot \mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) + \mathbf{E} \cdot \mathbf{N_u} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N_u})]^2}}$$

$$\text{Den} := \frac{\mathbf{E}^2 \cdot [\mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}{\sqrt{[\mathbf{E}^2 \cdot [\mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{E}^2 \cdot \left[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) + \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) \right]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right]^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \left[\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) + \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) \right]}}{\left[\mathbf{E}^2 \cdot \left[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) + \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) \right]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right] \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot \left[\mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) + \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{C} - \mathbf{D}) \right]^2}} = 0$$



Unit.
AB := 1
Given.
N1 := 1.49870
N2 := 2.74817
N3 := 1.00946
N4 := .64872
N5 := .78455
Nu := 3
A := Nu / N1
B := Nu / N2
C := Nu / N3
D := Nu / N4
E := Nu / N5

Descriptions.

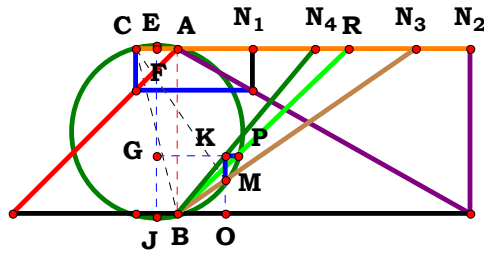
A · [E · [A · C · (C - D) + Nu · (B · D + A · Nu)] - [B · Nu · (C² + Nu²)]]
E · B · [A · C · (C - D) + Nu · (B · D + A · Nu)] + A² · Nu · (C² + Nu²)
= 0.197829

Num :=
A · [E · [A · C · (C - D) + Nu · (B · D + A · Nu)] - [B · Nu · (C² + Nu²)]]
sqrt ([A · [E · [A · C · (C - D) + Nu · (B · D + A · Nu)] - [B · Nu · (C² + Nu²)]])²

Den :=
B · [A · C · (C - D) + Nu · (B · D + A · Nu)] + A² · Nu · (C² + Nu²)
sqrt ([B · [A · C · (C - D) + Nu · (B · D + A · Nu)] + A² · Nu · (C² + Nu²)])²
L := Num / Den

Num = 1
Den = 1
L = 1

L -
A · sqrt ([B · [Nu · (B · D + A · Nu) + A · C · (C - D)] + A² · Nu · (C² + Nu²)])² · [E · [Nu · (B · D + A · Nu) + A · C · (C - D)] - B · Nu · (C² + Nu²)]
sqrt (A² · [E · [Nu · (B · D + A · Nu) + A · C · (C - D)] - B · Nu · (C² + Nu²)])² · [B · [Nu · (B · D + A · Nu) + A · C · (C - D)] + A² · Nu · (C² + Nu²)]
= 0



$N_1 = 0.45264$
 $N_2 = 1.76991$
 $N_3 = 1.44532$
 $N_4 = 0.83275$
 $R = 1.03672$

Unit. $AB := 1$ Given. $N_1 := .45264$ $N_2 := 1.76991$ $N_3 := 1.44532$
 $N_4 := .83275$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

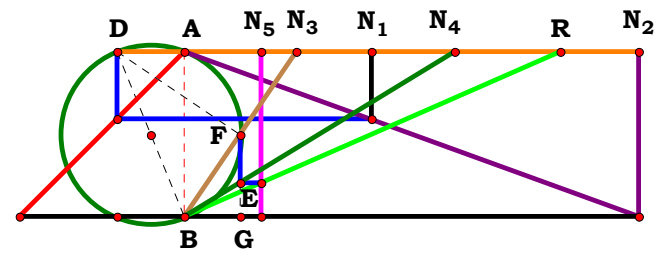
$$\frac{\sqrt{4 \cdot D \cdot (A \cdot C - B \cdot N_u) \cdot [A \cdot C \cdot (C - D) + N_u \cdot (B \cdot D + A \cdot N_u)] + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)}}{2 \cdot D \cdot (A \cdot C - B \cdot N_u)} = 1.03672$$

$$\text{Num} := \frac{\sqrt{4 \cdot D \cdot (A \cdot C - B \cdot N_u) \cdot [A \cdot C \cdot (C - D) + N_u \cdot (B \cdot D + A \cdot N_u)] + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)}}{\sqrt{\left[\sqrt{4 \cdot D \cdot (A \cdot C - B \cdot N_u) \cdot [A \cdot C \cdot (C - D) + N_u \cdot (B \cdot D + A \cdot N_u)] + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)} \right]^2}}$$

$$\text{Den} := \frac{2 \cdot D \cdot (A \cdot C - B \cdot N_u)}{\sqrt{[2 \cdot D \cdot (A \cdot C - B \cdot N_u)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{\left[\sqrt{B^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot D \cdot [N_u \cdot (B \cdot D + A \cdot N_u) + A \cdot C \cdot (C - D)] \cdot (A \cdot C - B \cdot N_u) - B \cdot (C^2 + N_u^2)} \right] \cdot \sqrt{D^2 \cdot (A \cdot C - B \cdot N_u)^2}}{D \cdot \sqrt{\left[\sqrt{B^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot D \cdot [N_u \cdot (B \cdot D + A \cdot N_u) + A \cdot C \cdot (C - D)] \cdot (A \cdot C - B \cdot N_u) - B \cdot (C^2 + N_u^2)} \right]^2 \cdot (A \cdot C - B \cdot N_u)}} = 0$$



N₁ = 1.13064
N₂ = 2.74817
N₃ = 0.68014
N₄ = 1.63667
N₅ = 0.46492
R = 2.27207

Unit. AB := 1 Given. $N_1 := 1.13064$ $N_2 := 2.74817$ $N_3 := .68014$
 $N_4 := 1.63667$ $N_5 := .46492$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

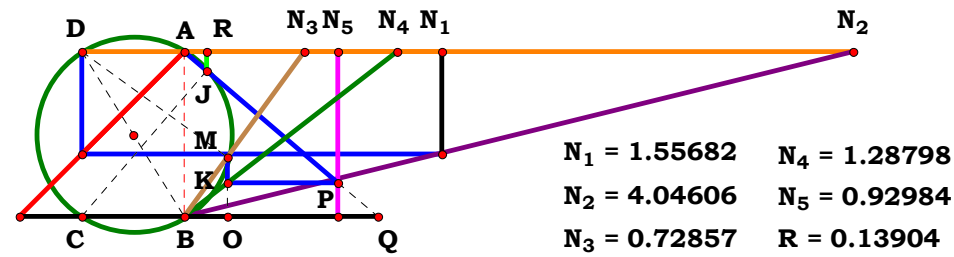
$$\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{E} \cdot [\mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]} = 2.272076$$

$$\mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{E} \cdot [\mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u)]}{\sqrt{[\mathbf{E} \cdot [\mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u)]]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2}}{\mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 1.55682$ $N_2 := 4.04606$ $N_3 := .72857$
 $N_4 := 1.28798$ $N_5 := .92984$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

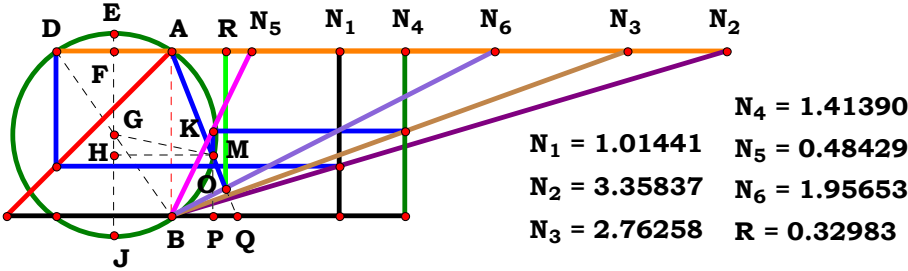
$$\frac{\mathbf{A} \cdot \mathbf{N}_u \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot [\mathbf{A} \cdot \mathbf{C}^2 \cdot \mathbf{E} - \mathbf{N}_u^3 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{C}^2 \cdot \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{E} \cdot \mathbf{N}_u \cdot (\mathbf{D} + \mathbf{N}_u) - \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_u)]}{\mathbf{E}^2 \cdot [\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} + \mathbf{D} \cdot \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B})]^2 + \mathbf{A}^2 \cdot \mathbf{N}_u^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)^2} = 0.139036$$

$$\text{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{A} \cdot \mathbf{C}^2 \cdot \mathbf{E} - \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D} + \mathbf{N}_{\mathbf{u}}) - \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]}{\sqrt{[\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{A} \cdot \mathbf{C}^2 \cdot \mathbf{E} - \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D} + \mathbf{N}_{\mathbf{u}}) - \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]]^2}}$$

$$\text{Den} := \frac{\mathbf{E}^2 \cdot \left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) \right]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}{\sqrt{\left[\mathbf{E}^2 \cdot \left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) \right]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{E}^2 \cdot \left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) \right]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right]^2} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \left[\mathbf{A} \cdot \mathbf{C}^2 \cdot \mathbf{E} - \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D} + \mathbf{N}_{\mathbf{u}}) - \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) \right]}{\left[\mathbf{E}^2 \cdot \left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) \right]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right] \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot \left[\mathbf{A} \cdot \mathbf{C}^2 \cdot \mathbf{E} - \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D} + \mathbf{N}_{\mathbf{u}}) - \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) \right]^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.01441
N₂ := 3.35837
N₃ := 2.76258

N₄ := 1.41390
N₅ := .48429
N₆ := 1.95653

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot C \cdot N_u \cdot \sqrt{A}}{\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B)\right]} + \sqrt{A} \cdot (2 \cdot C \cdot F + D \cdot E)} = 0.329837$$

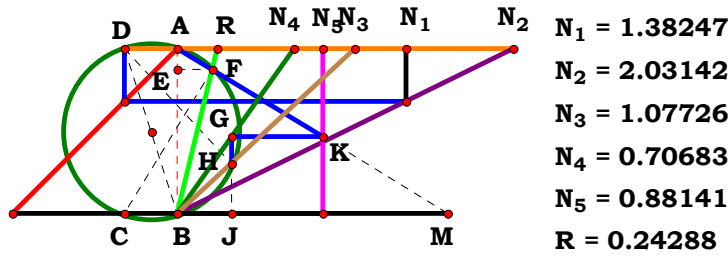
Num :=
$$\frac{2 \cdot C \cdot N_u \cdot \sqrt{A}}{\sqrt{\left(2 \cdot C \cdot N_u \cdot \sqrt{A}\right)^2}}$$

Den :=
$$\frac{\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B)\right]} + \sqrt{A} \cdot (2 \cdot C \cdot F + D \cdot E)}{\sqrt{\left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B)\right]} + \sqrt{A} \cdot (2 \cdot C \cdot F + D \cdot E)\right]^2}}$$

L :=
$$\frac{\text{Num}}{\text{Den}}$$

Num = 1
Den = 1
L = 1

L -
$$\frac{\sqrt{A} \cdot C \cdot N_u \cdot \sqrt{\left[\sqrt{A} \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B)\right]}\right]^2}}{\left[\sqrt{A} \cdot (2 \cdot C \cdot F + D \cdot E) + \sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B)\right]}\right] \cdot \sqrt{A \cdot C^2 \cdot N_u^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := 1.07726$
 $N_4 := .70683$ $N_5 := .88141$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{E \cdot A \cdot \left[A \cdot C \cdot (C - D) + N_u \cdot \left[D \cdot (A - B) + A \cdot N_u \right] \right] - A \cdot N_u \cdot \left(C^2 + N_u^2 \right) \cdot (A - B)}{E \cdot (A - B) \cdot \left[A \cdot \left(C^2 - D \cdot C + N_u^2 \right) + D \cdot N_u \cdot (A - B) \right] + A^2 \cdot N_u \cdot \left(C^2 + N_u^2 \right)} = 0.242875$$

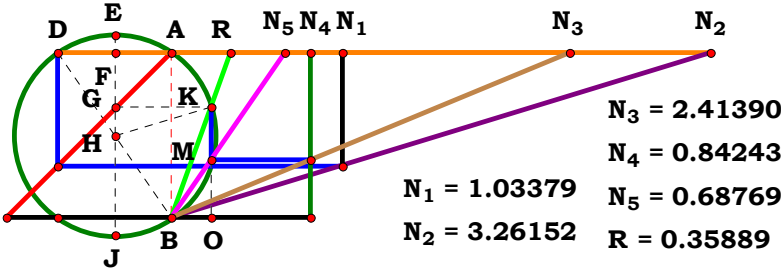
$$\text{Num} := \frac{E \cdot A \cdot \left[A \cdot C \cdot (C - D) + N_u \cdot \left[D \cdot (A - B) + A \cdot N_u \right] \right] - A \cdot N_u \cdot \left(C^2 + N_u^2 \right) \cdot (A - B)}{\sqrt{\left[E \cdot A \cdot \left[A \cdot C \cdot (C - D) + N_u \cdot \left[D \cdot (A - B) + A \cdot N_u \right] \right] - A \cdot N_u \cdot \left(C^2 + N_u^2 \right) \cdot (A - B) \right]^2}}$$

$$\text{Den} := \frac{E \cdot (A - B) \cdot \left[A \cdot \left(C^2 - D \cdot C + N_u^2 \right) + D \cdot N_u \cdot (A - B) \right] + A^2 \cdot N_u \cdot \left(C^2 + N_u^2 \right)}{\sqrt{\left[E \cdot (A - B) \cdot \left[A \cdot \left(C^2 - D \cdot C + N_u^2 \right) + D \cdot N_u \cdot (A - B) \right] + A^2 \cdot N_u \cdot \left(C^2 + N_u^2 \right) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{\left[A \cdot E \cdot \left[N_u \cdot \left[A \cdot N_u + D \cdot (A - B) \right] + A \cdot C \cdot (C - D) \right] - A \cdot N_u \cdot \left(C^2 + N_u^2 \right) \cdot (A - B) \right] \cdot \sqrt{\left[E \cdot (A - B) \cdot \left[A \cdot \left(C^2 - D \cdot C + N_u^2 \right) + D \cdot N_u \cdot (A - B) \right] + A^2 \cdot N_u \cdot \left(C^2 + N_u^2 \right) \right]^2}}{\sqrt{\left[A \cdot E \cdot \left[N_u \cdot \left[A \cdot N_u + D \cdot (A - B) \right] + A \cdot C \cdot (C - D) \right] - A \cdot N_u \cdot \left(C^2 + N_u^2 \right) \cdot (A - B) \right]^2} \cdot \left[E \cdot (A - B) \cdot \left[A \cdot \left(C^2 - D \cdot C + N_u^2 \right) + D \cdot N_u \cdot (A - B) \right] + A^2 \cdot N_u \cdot \left(C^2 + N_u^2 \right) \right]} = 0$$



Unit.
AB
:=
1
Given.
N1
:=
1.03379
N2
:=
3.26152
N3
:=
2.41390
N4
:=
.84243
N5
:=
.68769
Nu
:=
3
A
:=
NuN1
B
:=
NuN2
C
:=
NuN3
D
:=
NuN4
E
:=
NuN5

Descriptions.

2 · C · Nu · √ A

√ A · D² · E² − 4 · C · Nu · [A · C · Nu + D · E · (A − B)] + √ A · D · E

= 0.358879

Num
:=

2 · C · Nu · √ A

√ (2 · C · Nu · √ A)²

Den
:=

√ A · D² · E² − 4 · C · Nu · [A · C · Nu + D · E · (A − B)] + √ A · D · E

√ [√ A · D² · E² − 4 · C · Nu · [A · C · Nu + D · E · (A − B)] + √ A · D · E]²

L
:=

Num

Den

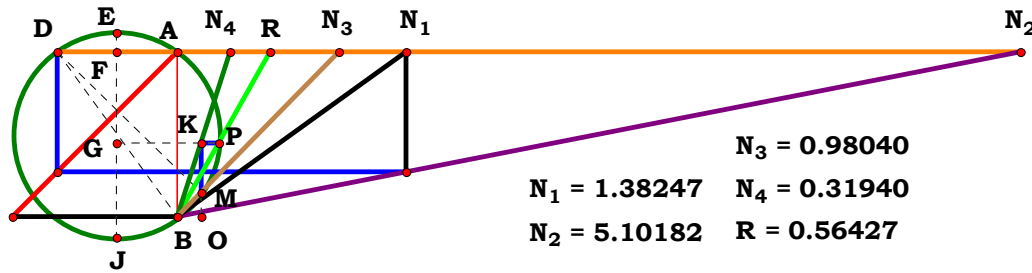
Num
=
1
Den
=
1
L
=
1

L
−

√ A · C · Nu · √ [√ A · D² · E² − 4 · C · Nu · [A · C · Nu + D · E · (A − B)] + √ A · D · E]²

[√ A · D² · E² − 4 · C · Nu · [A · C · Nu + D · E · (A − B)] + √ A · D · E] · √ A · C² · Nu²

=
0



Unit. AB := 1 Given. $N_1 := 1.38247$ $N_2 := 5.10182$ $N_3 := .98040$
 $N_4 := .31940$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

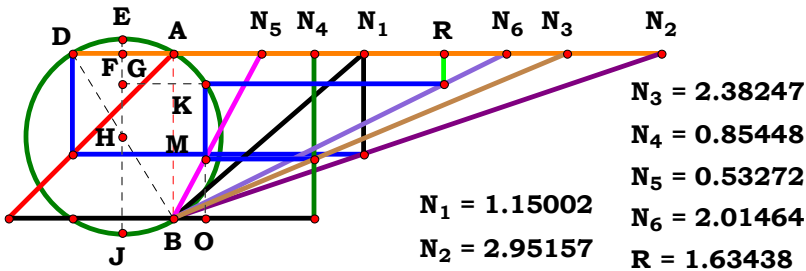
$$\frac{\sqrt{4 \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] \cdot [A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B)] + (C^2 + N_u^2)^2 \cdot (A - B)^2 - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}}{2 \cdot D \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)} = 0.564269$$

$$\text{Num} := \frac{\sqrt{4 \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] \cdot [A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B)] + (C^2 + N_u^2)^2 \cdot (A - B)^2 - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}}{\sqrt{\left[\sqrt{4 \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] \cdot [A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B)] + (C^2 + N_u^2)^2 \cdot (A - B)^2 - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)} \right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{[2 \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{D}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2} \cdot \left[\sqrt{4 \cdot \mathbf{D} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \cdot [\mathbf{A} \cdot (\mathbf{C}^2 - \mathbf{D} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}}^2) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} - \mathbf{B})^2 - \mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})} \right]}{\mathbf{D} \cdot \sqrt{\left[\sqrt{4 \cdot \mathbf{D} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \cdot [\mathbf{A} \cdot (\mathbf{C}^2 - \mathbf{D} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}}^2) + \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} - \mathbf{B})^2 - \mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})} \right]^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.15002
N₂ := 2.95157
N₃ := 2.38247
N₄ := .85448
N₅ := .53272
N₆ := 2.01464

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right]}{2 \cdot F \cdot \sqrt{A \cdot D \cdot E}}$$

1.634379

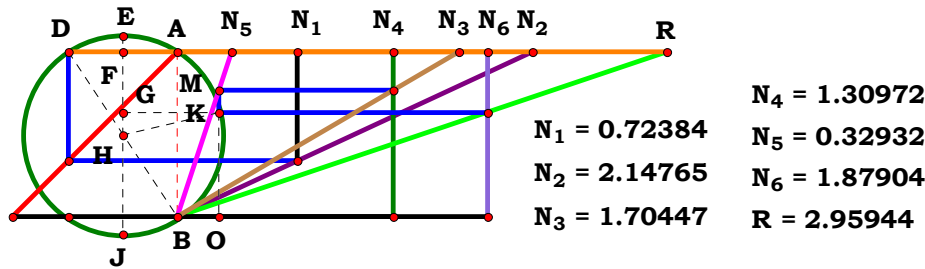
$$Num := \frac{N_u \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right]}{\sqrt{\left[N_u \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right] \right]^2}}$$

$$Den := \frac{2 \cdot F \cdot \sqrt{A \cdot D \cdot E}}{\sqrt{\left(2 \cdot F \cdot \sqrt{A \cdot D \cdot E} \right)^2}}$$

L := $\frac{Num}{Den}$

Num = 1
Den = 1
L = 1

$$L - \frac{N_u \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right] \cdot \sqrt{A \cdot D^2 \cdot E^2 \cdot F^2}}{\sqrt{A \cdot D \cdot E \cdot F} \cdot \sqrt{N_u^2 \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right]^2}} = 0$$



$$\begin{array}{l} \text{Unit.} \quad \text{AB} := 1 \quad \text{Given.} \quad \text{N}_1 := .72384 \quad \text{N}_2 := 2.14765 \quad \text{N}_3 := 1.70447 \\ \text{N}_4 := 1.30972 \quad \text{N}_5 := .32932 \quad \text{N}_6 := 1.87904 \\ \text{N}_u := 3 \quad \text{A} := \frac{\text{N}_u}{\text{N}_1} \quad \text{B} := \frac{\text{N}_u}{\text{N}_2} \quad \text{C} := \frac{\text{N}_u}{\text{N}_3} \quad \text{D} := \frac{\text{N}_u}{\text{N}_4} \quad \text{E} := \frac{\text{N}_u}{\text{N}_5} \quad \text{F} := \frac{\text{N}_u}{\text{N}_6} \end{array}$$

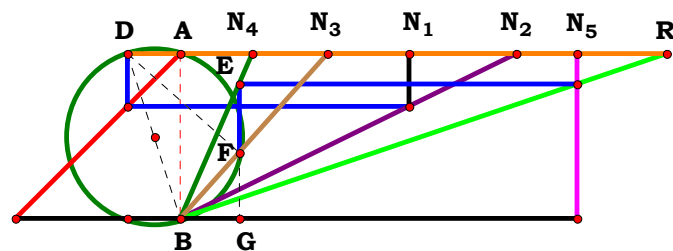
Descriptions.

$$\frac{2 \cdot \text{N}_6 \cdot \sqrt{\text{A} \cdot \text{D}}}{\sqrt{\text{A} \cdot \text{D}^2 - 4 \cdot \text{C} \cdot \text{N}_5 \cdot \left[\text{D} \cdot (\text{A} - \text{B}) + \text{A} \cdot \text{C} \cdot \text{N}_5 \right]} + \sqrt{\text{A} \cdot \text{D}}} = 2.959505 \quad \text{Num} := \frac{2 \cdot \text{N}_6 \cdot \sqrt{\text{A} \cdot \text{D}}}{\sqrt{\left(2 \cdot \text{N}_6 \cdot \sqrt{\text{A} \cdot \text{D}} \right)^2}}$$

$$\text{Den} := \frac{\sqrt{\text{A} \cdot \text{D}^2 - 4 \cdot \text{C} \cdot \text{N}_5 \cdot \left[\text{D} \cdot (\text{A} - \text{B}) + \text{A} \cdot \text{C} \cdot \text{N}_5 \right]} + \sqrt{\text{A} \cdot \text{D}}}{\sqrt{\left[\sqrt{\text{A} \cdot \text{D}^2 - 4 \cdot \text{C} \cdot \text{N}_5 \cdot \left[\text{D} \cdot (\text{A} - \text{B}) + \text{A} \cdot \text{C} \cdot \text{N}_5 \right]} + \sqrt{\text{A} \cdot \text{D}} \right]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad \text{L} = 1$$

$$\text{L} - \frac{\sqrt{\text{A} \cdot \text{D} \cdot \text{N}_6} \cdot \sqrt{\left[\sqrt{\text{A} \cdot \text{D}^2 - 4 \cdot \text{C} \cdot \text{N}_5 \cdot \left[\text{D} \cdot (\text{A} - \text{B}) + \text{A} \cdot \text{C} \cdot \text{N}_5 \right]} + \sqrt{\text{A} \cdot \text{D}} \right]^2}}{\left[\sqrt{\text{A} \cdot \text{D}^2 - 4 \cdot \text{C} \cdot \text{N}_5 \cdot \left[\text{D} \cdot (\text{A} - \text{B}) + \text{A} \cdot \text{C} \cdot \text{N}_5 \right]} + \sqrt{\text{A} \cdot \text{D}} \right] \cdot \sqrt{\text{A} \cdot \text{D}^2 \cdot \text{N}_6^2}} = 0$$



N₁ = 1.38247
N₂ = 2.03142
N₃ = 0.89323
N₄ = 0.43563
N₅ = 2.40207
R = 2.94715

Unit. AB := 1 Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .89323$
 $N_4 := .43563$ $N_5 := 2.40207$

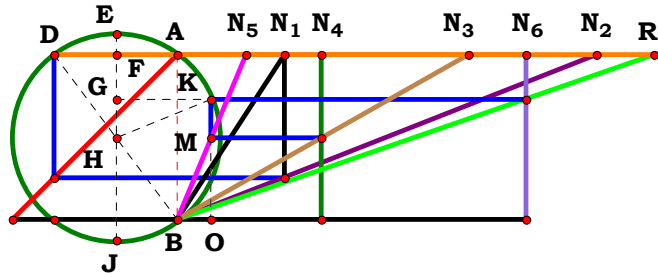
$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]} = 2.947144 \quad \mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]^2}} \quad \mathbf{Den} := \frac{\mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]}{\sqrt{[\mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\mathbf{E}^2 \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}} = 0$$



N₁ = 0.64635
N₂ = 2.53508
N₃ = 1.76258
N₄ = 0.87386
N₅ = 0.41649
N₆ = 2.11150
R = 2.88713

Unit.
AB := 1
Given.
N₁ := .64635
N₂ := 2.53508
N₃ := 1.76258
N₄ := .87386
N₅ := .41649
N₆ := 2.11150

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot N_u \cdot \sqrt{A \cdot D \cdot E}}{F \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right]} = 2.887152$$

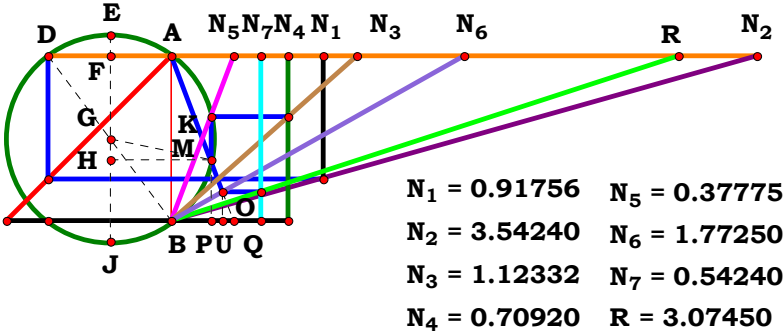
Den :=
$$\frac{F \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right]}{\sqrt{\left[F \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right] \right]^2}}$$

Num :=
$$\frac{2 \cdot N_u \cdot \sqrt{A \cdot D \cdot E}}{\sqrt{\left(2 \cdot N_u \cdot \sqrt{A \cdot D \cdot E} \right)^2}}$$

L :=
$$\frac{Num}{Den}$$

Num = 1
Den = 1
L = 1

L -
$$\frac{\sqrt{A \cdot D \cdot E} \cdot N_u \cdot \sqrt{F^2 \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right]^2}}{F \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot D \cdot E} \right] \cdot \sqrt{A \cdot D^2 \cdot E^2 \cdot N_u^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := .91756$

$N_2 := 3.54240$

$N_3 := 1.12332$

$N_4 := .70920$

$N_5 := .37775$

$N_6 := 1.77250$

$N_7 := .54240$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

$G := \frac{N_u}{N_7}$

Descriptions.

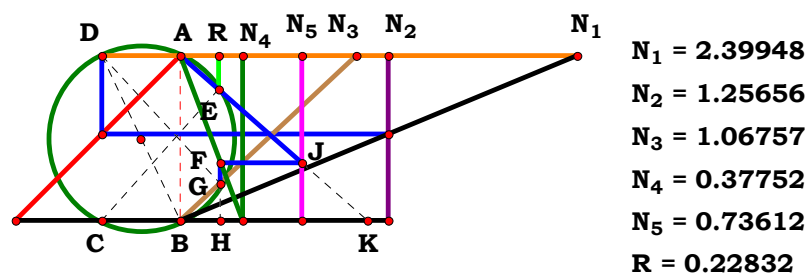
$$\frac{N_u \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot (2 \cdot C \cdot F + D \cdot E)} \right]}{2 \cdot C \cdot F \cdot G \cdot \sqrt{A}} = 3.074367$$

$$Num := \frac{N_u \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot (2 \cdot C \cdot F + D \cdot E)} \right]}{\sqrt{\left[N_u \cdot \left[\sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} + \sqrt{A \cdot (2 \cdot C \cdot F + D \cdot E)} \right] \right]^2}}$$

$$Den := \frac{2 \cdot C \cdot F \cdot G \cdot \sqrt{A}}{\sqrt{\left(2 \cdot C \cdot F \cdot G \cdot \sqrt{A} \right)^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{N_u \cdot \left[\sqrt{A \cdot (2 \cdot C \cdot F + D \cdot E)} + \sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} \right] \cdot \sqrt{A \cdot C^2 \cdot F^2 \cdot G^2}}{\sqrt{A \cdot C \cdot F \cdot G} \cdot \sqrt{N_u^2 \cdot \left[\sqrt{A \cdot (2 \cdot C \cdot F + D \cdot E)} + \sqrt{A \cdot D^2 \cdot E^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot C \cdot N_u + D \cdot E \cdot (A - B) \right]} \right]^2}} = 0$$



Unit. $AB := 1$ **Given.** $N_1 := 2.39948$ $N_2 := 1.25656$ $N_3 := 1.06757$
 $N_4 := .37752$ $N_5 := .73612$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

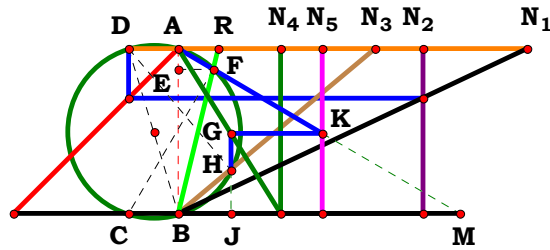
$$\frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E}]}{\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2} = 0.228316$$

$$\text{Num} := \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E}]}{\sqrt{[\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E}]^2}}$$

$$\text{Den} := \frac{\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}{\sqrt{\left[\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\left[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right]^2} \cdot \left[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} \right]}{\left[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right] \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot \left[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} \right]^2}} = 0$$



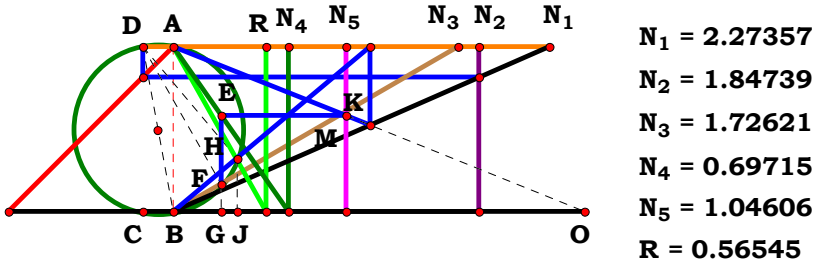
Unit. AB := 1 Given. $N_1 := 2.10891$ $N_2 := 1.47933$ $N_3 := 1.19349$
 $N_4 := .61966$ $N_5 := .87172$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$$\frac{\mathbf{B} \cdot [\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B})]}{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})} = 0.245164$$

$$\text{Den} := \frac{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{[\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

$$\mathbf{L} - \frac{\mathbf{B} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]] \cdot \sqrt{[\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} - \mathbf{B}) \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]^2}}{[\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} - \mathbf{B}) \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})] \cdot \sqrt{\mathbf{B}^2 \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.27357$ $N_2 := 1.84739$ $N_3 := 1.72621$

$N_4 := .69715$ $N_5 := 1.04606$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

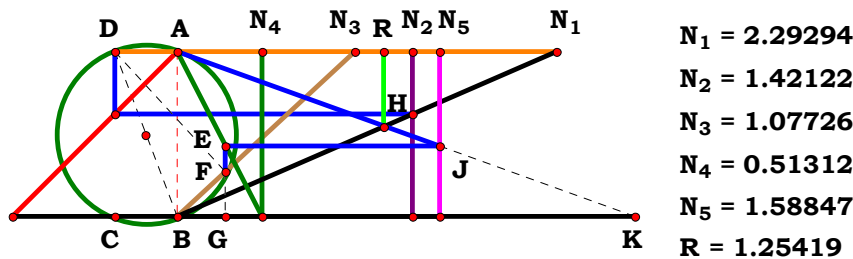
$$\frac{E \cdot B \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right] + B \cdot \left(C^2 + N_u^2\right) \cdot \left[A \cdot B + N_u \cdot (A - B)\right]}{B \cdot \left(C^2 + N_u^2\right) \cdot \left(A \cdot B - A^2 + B \cdot N_u\right) - E \cdot D \cdot (A - B) \cdot \left[B \cdot C + N_u \cdot (A - B)\right]} = 0.565442$$

$$\text{Num} := \frac{E \cdot B \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right] + B \cdot \left(C^2 + N_u^2\right) \cdot \left[A \cdot B + N_u \cdot (A - B)\right]}{\sqrt{\left[E \cdot B \cdot D \cdot \left[B \cdot C + N_u \cdot (A - B)\right] + B \cdot \left(C^2 + N_u^2\right) \cdot \left[A \cdot B + N_u \cdot (A - B)\right]\right]^2}}$$

$$\text{Den} := \frac{B \cdot \left(C^2 + N_u^2\right) \cdot \left(A \cdot B - A^2 + B \cdot N_u\right) - E \cdot D \cdot (A - B) \cdot \left[B \cdot C + N_u \cdot (A - B)\right]}{\sqrt{\left[B \cdot \left(C^2 + N_u^2\right) \cdot \left(A \cdot B - A^2 + B \cdot N_u\right) - E \cdot D \cdot (A - B) \cdot \left[B \cdot C + N_u \cdot (A - B)\right]\right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{\sqrt{\left[B \cdot \left(C^2 + N_u^2\right) \cdot \left(B \cdot A - A^2 + B \cdot N_u\right) - D \cdot E \cdot \left[B \cdot C + N_u \cdot (A - B)\right] \cdot (A - B)\right]^2} \cdot \left[B \cdot \left[A \cdot B + N_u \cdot (A - B)\right] \cdot \left(C^2 + N_u^2\right) + B \cdot D \cdot E \cdot \left[B \cdot C + N_u \cdot (A - B)\right]\right]}{\left[B \cdot \left(C^2 + N_u^2\right) \cdot \left(B \cdot A - A^2 + B \cdot N_u\right) - D \cdot E \cdot \left[B \cdot C + N_u \cdot (A - B)\right] \cdot (A - B)\right] \cdot \sqrt{\left[B \cdot \left[A \cdot B + N_u \cdot (A - B)\right] \cdot \left(C^2 + N_u^2\right) + B \cdot D \cdot E \cdot \left[B \cdot C + N_u \cdot (A - B)\right]\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.29294$ $N_2 := 1.42122$ $N_3 := 1.07726$
 $N_4 := .51312$ $N_5 := 1.58847$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

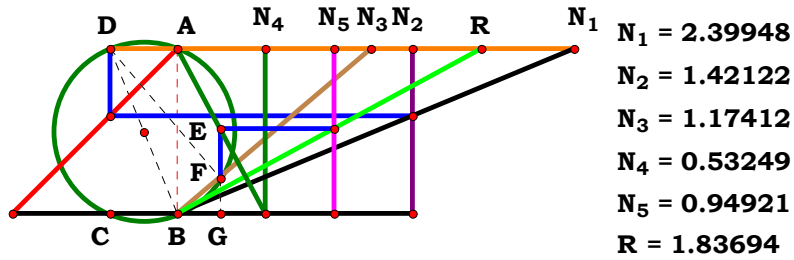
Descriptions.

$$\frac{B \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot D \cdot [B \cdot C + N_u \cdot (A - B)] + A \cdot B \cdot (C^2 + N_u^2)} = 1.25419 \qquad \text{Num} := \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot N_u \cdot (C^2 + N_u^2)]^2}}$$

$$\text{Den} := \frac{E \cdot D \cdot [B \cdot C + N_u \cdot (A - B)] + A \cdot B \cdot (C^2 + N_u^2)}{\sqrt{[E \cdot D \cdot [B \cdot C + N_u \cdot (A - B)] + A \cdot B \cdot (C^2 + N_u^2)]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

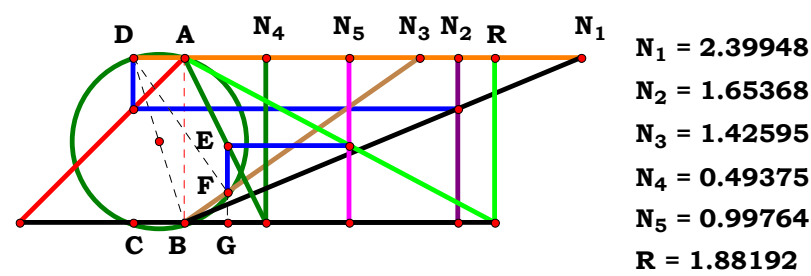
Num = 1 Den = 1 L = 1

$$L - \frac{B \cdot N_u \cdot (C^2 + N_u^2) \cdot \sqrt{[A \cdot B \cdot (C^2 + N_u^2) + D \cdot E \cdot [B \cdot C + N_u \cdot (A - B)]]^2}}{[A \cdot B \cdot (C^2 + N_u^2) + D \cdot E \cdot [B \cdot C + N_u \cdot (A - B)]] \cdot \sqrt{B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$


$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$
$$\frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{E} \cdot [\mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]} = 1.836947 \quad \text{Num} := \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{E} \cdot [\mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]}{\sqrt{[\mathbf{E} \cdot [\mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\mathbf{E}^2 \cdot [\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D})]^2}}{\mathbf{E} \cdot [\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 - \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D})] \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}} = 0$$



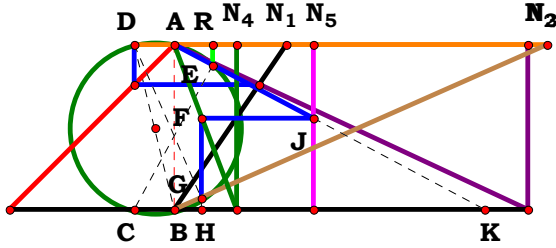
Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.65368$ $N_3 := 1.42595$
 $N_4 := .49375$ $N_5 := .99764$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{B \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]} = 1.881938 \qquad \text{Num} := \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot N_u \cdot (C^2 + N_u^2)]^2}} \qquad \text{Den} := \frac{E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]}{\sqrt{[E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{B \cdot N_u \cdot \sqrt{E^2 \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)]^2} \cdot (C^2 + N_u^2)}{E \cdot [B \cdot C \cdot D + D \cdot N_u \cdot (A - B)] \cdot \sqrt{B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



N₁ = 0.67541
N₂ = 2.13797
N₃ = 2.25892
N₄ = 0.37752
N₅ = 0.84266
R = 0.22786

$$\begin{array}{llllll}
 \text{Unit.} & \mathbf{AB} := 1 & \text{Given.} & \mathbf{N_1} := .67541 & \mathbf{N_2} := 2.13797 & \mathbf{N_3} := 2.25892 \\
 & & & \mathbf{N_4} := .37752 & \mathbf{N_5} := .84266 & \\
 \mathbf{N_u} := 3 & \mathbf{A} := \frac{N_u}{N_1} & \mathbf{B} := \frac{N_u}{N_2} & \mathbf{C} := \frac{N_u}{N_3} & \mathbf{D} := \frac{N_u}{N_4} & \mathbf{E} := \frac{N_u}{N_5}
 \end{array}$$

Descriptions.

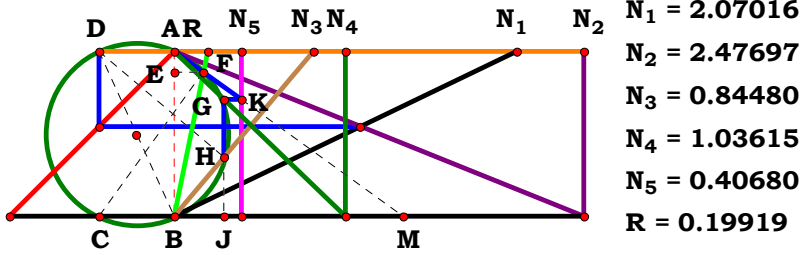
$$\frac{\mathbf{N_u} \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left(\mathbf{A} + \mathbf{B}\right) \cdot \left[\mathbf{E} \cdot \mathbf{D} \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right] - \left[\mathbf{B} \cdot \mathbf{N_u} \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)\right]\right]}{\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right]^2 + \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)^2 \cdot \left(\mathbf{A} + \mathbf{B}\right)^2} = \mathbf{0.227861}$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left(\mathbf{A} + \mathbf{B}\right) \cdot \left[\mathbf{E} \cdot \mathbf{D} \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right] - \left[\mathbf{B} \cdot \mathbf{N_u} \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)\right]\right]}{\sqrt{\left[\mathbf{N_u} \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left(\mathbf{A} + \mathbf{B}\right) \cdot \left[\mathbf{E} \cdot \mathbf{D} \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right] - \left[\mathbf{B} \cdot \mathbf{N_u} \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)\right]\right]\right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right]^2 + \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)^2 \cdot \left(\mathbf{A} + \mathbf{B}\right)^2}{\sqrt{\left[\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right]^2 + \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)^2 \cdot \left(\mathbf{A} + \mathbf{B}\right)^2\right]^2}} \qquad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{Num} = 1 \qquad \mathbf{Den} = 1 \qquad \mathbf{L} = 1$$

$$\mathbf{L} - \frac{\mathbf{N_u} \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left(\mathbf{A} + \mathbf{B}\right) \cdot \sqrt{\left[\mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)^2 \cdot \left(\mathbf{A} + \mathbf{B}\right)^2 + \mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right]^2\right]} \cdot \left[\mathbf{E} \cdot \mathbf{D} \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right] - \left[\mathbf{B} \cdot \mathbf{N_u} \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)\right]\right]}{\left[\mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)^2 \cdot \left(\mathbf{A} + \mathbf{B}\right)^2 + \mathbf{D}^2 \cdot \mathbf{E}^2 \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right]^2\right] \cdot \sqrt{\mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)^2 \cdot \left(\mathbf{A} + \mathbf{B}\right)^2 \cdot \left[\mathbf{E} \cdot \mathbf{D} \cdot \left[\mathbf{C} \cdot \left(\mathbf{A} + \mathbf{B}\right) - \mathbf{B} \cdot \mathbf{N_u}\right] - \left[\mathbf{B} \cdot \mathbf{N_u} \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right)\right]\right]^2}} = \mathbf{0}$$



Unit.
AB
:=
1
Given.
N1
:=
2.07016
N2
:=
2.47697
N3
:=
.84480
N4
:=
1.03615
N5
:=
.40680
Nu
:=
3
A
:=
NuN1
B
:=
NuN2
C
:=
NuN3
D
:=
NuN4
E
:=
NuN5

Descriptions.

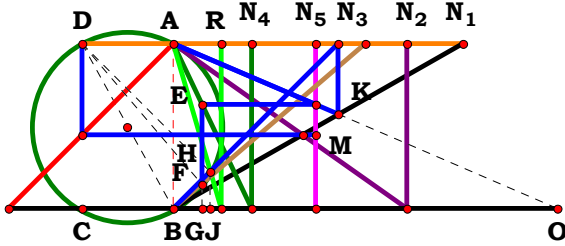
$$\frac{(A+B)\cdot\left[E\cdot D\cdot\left[C\cdot(A+B)-B\cdot N_u\right]-\left[B\cdot N_u\cdot\left(C^2+N_u^2\right)\right]\right]}{E\cdot B\cdot D\cdot\left[C\cdot(A+B)-B\cdot N_u\right]+N_u\cdot\left(C^2+N_u^2\right)\cdot(A+B)^2}=0.199193$$

$$Num:=\frac{(A+B)\cdot\left[E\cdot D\cdot\left[C\cdot(A+B)-B\cdot N_u\right]-\left[B\cdot N_u\cdot\left(C^2+N_u^2\right)\right]\right]}{\sqrt{\left[(A+B)\cdot\left[E\cdot D\cdot\left[C\cdot(A+B)-B\cdot N_u\right]-\left[B\cdot N_u\cdot\left(C^2+N_u^2\right)\right]\right]^2}}$$

$$Den:=\frac{E\cdot B\cdot D\cdot\left[C\cdot(A+B)-B\cdot N_u\right]+N_u\cdot\left(C^2+N_u^2\right)\cdot(A+B)^2}{\sqrt{\left[E\cdot B\cdot D\cdot\left[C\cdot(A+B)-B\cdot N_u\right]+N_u\cdot\left(C^2+N_u^2\right)\cdot(A+B)^2\right]^2}}\qquad L:=\frac{Num}{Den}$$

$$Num=1\qquad Den=1\qquad L=1$$

$$L-\frac{(A+B)\cdot\sqrt{\left[N_u\cdot\left(C^2+N_u^2\right)\cdot(A+B)^2+B\cdot D\cdot E\cdot\left[C\cdot(A+B)-B\cdot N_u\right]\right]^2}\cdot\left[E\cdot D\cdot\left[C\cdot(A+B)-B\cdot N_u\right]-\left[B\cdot N_u\cdot\left(C^2+N_u^2\right)\right]\right]}{\sqrt{(A+B)^2\cdot\left[E\cdot D\cdot\left[C\cdot(A+B)-B\cdot N_u\right]-\left[B\cdot N_u\cdot\left(C^2+N_u^2\right)\right]\right]^2}\cdot\left[N_u\cdot\left(C^2+N_u^2\right)\cdot(A+B)^2+B\cdot D\cdot E\cdot\left[C\cdot(A+B)-B\cdot N_u\right]\right]}=0$$



$N_1 = 1.75053$
 $N_2 = 1.41153$
 $N_3 = 1.16443$
 $N_4 = 0.47437$
 $N_5 = 0.86203$
 $R = 0.28775$

Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 1.41153$ $N_3 := 1.16443$

$N_4 := .47437$ $N_5 := .86203$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{(A+B) \cdot \left[E \cdot D \cdot \left[C \cdot (A+B) - B \cdot N_u \right] + \left(C^2 + N_u^2 \right) \cdot \left[A^2 + B \cdot (A - N_u) \right] \right]}{E \cdot B \cdot D \cdot \left[C \cdot (A+B) - B \cdot N_u \right] + \left(C^2 + N_u^2 \right) \cdot (A+B) \cdot \left[A \cdot B + N_u \cdot (A+B) \right]} = 0.287754$$

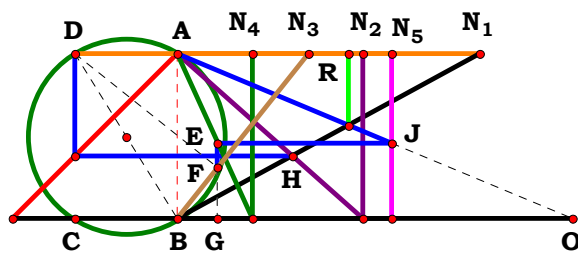
$$Num := \frac{(A+B) \cdot \left[E \cdot D \cdot \left[C \cdot (A+B) - B \cdot N_u \right] + \left(C^2 + N_u^2 \right) \cdot \left[A^2 + B \cdot (A - N_u) \right] \right]}{\sqrt{\left[(A+B) \cdot \left[E \cdot D \cdot \left[C \cdot (A+B) - B \cdot N_u \right] + \left(C^2 + N_u^2 \right) \cdot \left[A^2 + B \cdot (A - N_u) \right] \right] \right]^2}}$$

$$Den := \frac{E \cdot B \cdot D \cdot \left[C \cdot (A+B) - B \cdot N_u \right] + \left(C^2 + N_u^2 \right) \cdot (A+B) \cdot \left[A \cdot B + N_u \cdot (A+B) \right]}{\sqrt{\left[E \cdot B \cdot D \cdot \left[C \cdot (A+B) - B \cdot N_u \right] + \left(C^2 + N_u^2 \right) \cdot (A+B) \cdot \left[A \cdot B + N_u \cdot (A+B) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{\sqrt{\left[\left(C^2 + N_u^2 \right) \cdot (A+B) \cdot \left[N_u \cdot (A+B) + A \cdot B \right] + B \cdot D \cdot E \cdot \left[C \cdot (A+B) - B \cdot N_u \right] \right]^2 \cdot (A+B) \cdot \left[\left(C^2 + N_u^2 \right) \cdot \left[A^2 + B \cdot (A - N_u) \right] + D \cdot E \cdot \left[C \cdot (A+B) - B \cdot N_u \right] \right]}}{\sqrt{(A+B)^2 \cdot \left[\left(C^2 + N_u^2 \right) \cdot \left[A^2 + B \cdot (A - N_u) \right] + D \cdot E \cdot \left[C \cdot (A+B) - B \cdot N_u \right] \right]^2 \cdot \left[\left(C^2 + N_u^2 \right) \cdot (A+B) \cdot \left[N_u \cdot (A+B) + A \cdot B \right] + B \cdot D \cdot E \cdot \left[C \cdot (A+B) - B \cdot N_u \right] \right]}} = 0$$

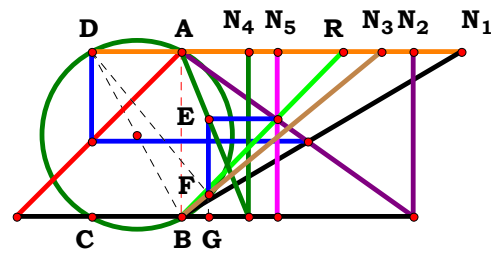


Unit. AB := 1 Given. $N_1 := 1.82802$ $N_2 := 1.12096$ $N_3 := .79637$
 $N_4 := .45500$ $N_5 := 1.29790$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$$\frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})} = 1.036407 \quad \mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})]^2}} \quad \mathbf{Den} := \frac{\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] \right]^2} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] \right] \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2}} = 0$$



N₁ = 1.69242
N₂ = 1.40185
N₃ = 1.21286
N₄ = 0.40657
N₅ = 0.58115
R = 0.97899

Unit. AB := 1 Given. $N_1 := 1.69242$ $N_2 := 1.40185$ $N_3 := 1.21286$
 $N_4 := .40657$ $N_5 := .58115$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{\mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{E} \cdot [\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N_u}]]} = \mathbf{0.979006}$$

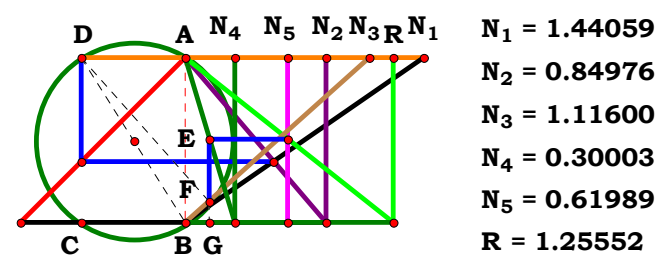
$$\text{Den} := \frac{\mathbf{E} \cdot [\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]}{\sqrt{[\mathbf{E} \cdot [\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}]]^2}}$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{N_u} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2) \cdot (\mathbf{A} + \mathbf{B})]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B}) \cdot \sqrt{\mathbf{E}^2 \cdot [\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B})]^2}}{\mathbf{E} \cdot [\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B})] \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.44059$ $N_2 := .84976$ $N_3 := 1.11600$
 $N_4 := .30003$ $N_5 := .61989$

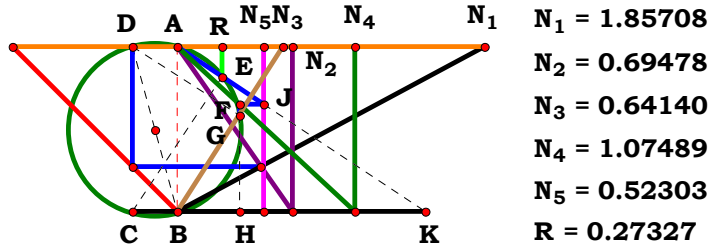
$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]} = 1.255517 \quad \text{Num} := \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$
$$\text{Den} := \frac{D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]}{\sqrt{[D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u]]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{D^2 \cdot E^2 \cdot [C \cdot (A + B) - B \cdot N_u]^2}}{D \cdot E \cdot [C \cdot (A + B) - B \cdot N_u] \cdot \sqrt{N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.85708
N₂ := .69478
N₃ := .64140
N₄ := 1.07489
N₅ := .52303

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left[E \cdot D \cdot \left[C \cdot (A + B) - A \cdot N_u\right] - \left[A \cdot N_u \cdot \left(C^2 + N_u^2\right)\right]\right]}{E^2 \cdot D^2 \cdot \left[C \cdot (A + B) - A \cdot N_u\right]^2 + N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2} = 0.273271$$

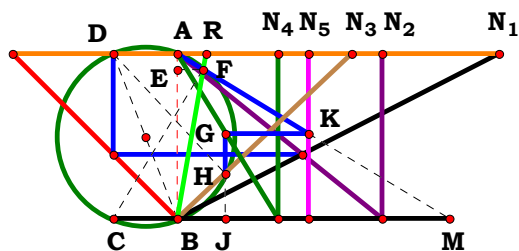
Num :=
$$\frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left[E \cdot D \cdot \left[C \cdot (A + B) - A \cdot N_u\right] - \left[A \cdot N_u \cdot \left(C^2 + N_u^2\right)\right]\right]}{\sqrt{\left[N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \left[E \cdot D \cdot \left[C \cdot (A + B) - A \cdot N_u\right] - \left[A \cdot N_u \cdot \left(C^2 + N_u^2\right)\right]\right]^2}}$$

Den :=
$$\frac{E^2 \cdot D^2 \cdot \left[C \cdot (A + B) - A \cdot N_u\right]^2 + N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2}{\sqrt{\left[E^2 \cdot D^2 \cdot \left[C \cdot (A + B) - A \cdot N_u\right]^2 + N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2\right]^2}}$$

L :=
$$\frac{\text{Num}}{\text{Den}}$$

Num = 1
Den = 1
L = 1

L -
$$\frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \sqrt{\left[N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2 + D^2 \cdot E^2 \cdot \left[C \cdot (A + B) - A \cdot N_u\right]^2\right]^2} \cdot \left[E \cdot D \cdot \left[C \cdot (A + B) - A \cdot N_u\right] - \left[A \cdot N_u \cdot \left(C^2 + N_u^2\right)\right]\right]}{\left[N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2 + D^2 \cdot E^2 \cdot \left[C \cdot (A + B) - A \cdot N_u\right]^2\right] \cdot \sqrt{N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2 \cdot \left[E \cdot D \cdot \left[C \cdot (A + B) - A \cdot N_u\right] - \left[A \cdot N_u \cdot \left(C^2 + N_u^2\right)\right]\right]^2}} = 0$$



N₁ = 1.94425
N₂ = 1.23719
N₃ = 1.05789
N₄ = 0.60998
N₅ = 0.79423
R = 0.17611

Unit. AB := 1 Given. $N_1 := 1.94425$ $N_2 := 1.23719$ $N_3 := 1.05789$
 $N_4 := .60998$ $N_5 := .79423$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

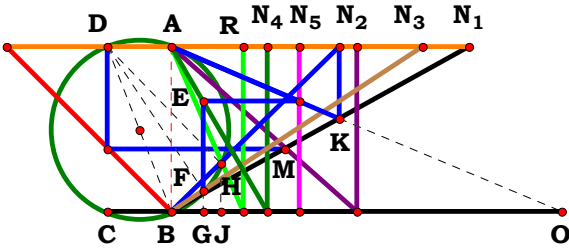
$$\frac{(\mathbf{A} + \mathbf{B}) \cdot [\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] - [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]]}{\mathbf{E} \cdot \mathbf{A} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})^2} = \mathbf{0.17611}$$

$$\mathbf{Num} := \frac{(\mathbf{A} + \mathbf{B}) \cdot [\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] - [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]]}{\sqrt{[(\mathbf{A} + \mathbf{B}) \cdot [\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] - [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]]^2}}$$

$$\text{Den} := \frac{\mathbf{E} \cdot \mathbf{A} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})^2}{\sqrt{[\mathbf{E} \cdot \mathbf{A} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})^2]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{(\mathbf{A} + \mathbf{B}) \cdot \sqrt{\left[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})^2 + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] \right]^2 \cdot [\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] - [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]]}{\sqrt{(\mathbf{A} + \mathbf{B})^2 \cdot [\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] - [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]^2 \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})^2 + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}]}} = 0$$



N₁ = 1.79896
N₂ = 1.12096
N₃ = 1.52280
N₄ = 0.58092
N₅ = 0.77486
R = 0.43271

Unit.

AB := 1

Given.

N₁ := 1.79896

N₂ := 1.12096

N₃ := 1.52280

N₄ := .58092

N₅ := .77486

N_u := 3

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

E := $\frac{N_u}{N_5}$

Descriptions.

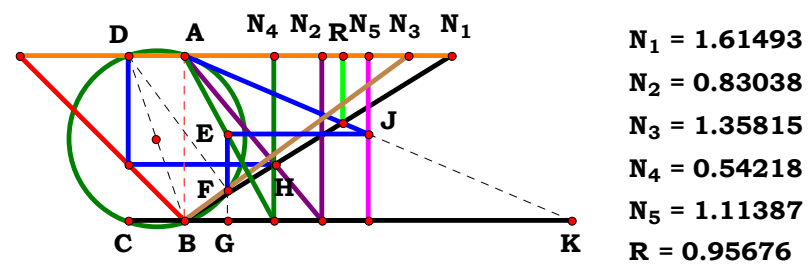
$$\frac{(A+B)\cdot\left[E\cdot D\cdot\left[C\cdot(A+B)-A\cdot N_u\right]+A\cdot\left(C^2+N_u^2\right)\cdot\left(A+B-N_u\right)\right]}{E\cdot A\cdot D\cdot\left[C\cdot(A+B)-A\cdot N_u\right]+(A+B)\cdot\left[A^2+N_u\cdot(A+B)\right]\cdot\left(C^2+N_u^2\right)}=0.432714$$

$$Num:=\frac{(A+B)\cdot\left[E\cdot D\cdot\left[C\cdot(A+B)-A\cdot N_u\right]+A\cdot\left(C^2+N_u^2\right)\cdot\left(A+B-N_u\right)\right]}{\sqrt{\left[(A+B)\cdot\left[E\cdot D\cdot\left[C\cdot(A+B)-A\cdot N_u\right]+A\cdot\left(C^2+N_u^2\right)\cdot\left(A+B-N_u\right)\right]\right]^2}}$$

$$Den:=\frac{E\cdot A\cdot D\cdot\left[C\cdot(A+B)-A\cdot N_u\right]+(A+B)\cdot\left[A^2+N_u\cdot(A+B)\right]\cdot\left(C^2+N_u^2\right)}{\sqrt{\left[E\cdot A\cdot D\cdot\left[C\cdot(A+B)-A\cdot N_u\right]+(A+B)\cdot\left[A^2+N_u\cdot(A+B)\right]\cdot\left(C^2+N_u^2\right)\right]^2}}\quad L:=\frac{Num}{Den}$$

$$Num=1\quad Den=1\quad L=1$$

$$L-\frac{\left[D\cdot E\cdot\left[C\cdot(A+B)-A\cdot N_u\right]+A\cdot\left(C^2+N_u^2\right)\cdot\left(A+B-N_u\right)\right]\cdot(A+B)\cdot\sqrt{\left[\left[N_u\cdot(A+B)+A^2\right]\cdot\left(C^2+N_u^2\right)\cdot(A+B)+A\cdot D\cdot E\cdot\left[C\cdot(A+B)-A\cdot N_u\right]\right]^2}}{\left[\left[N_u\cdot(A+B)+A^2\right]\cdot\left(C^2+N_u^2\right)\cdot(A+B)+A\cdot D\cdot E\cdot\left[C\cdot(A+B)-A\cdot N_u\right]\right]\cdot\sqrt{\left[D\cdot E\cdot\left[C\cdot(A+B)-A\cdot N_u\right]+A\cdot\left(C^2+N_u^2\right)\cdot\left(A+B-N_u\right)\right]^2\cdot(A+B)^2}}=0$$



Unit. AB := 1 Given. $N_1 := 1.61493$ $N_2 := .83038$ $N_3 := 1.35815$
 $N_4 := .54218$ $N_5 := 1.11387$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

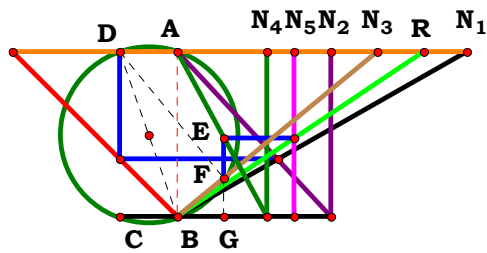
Descriptions.

$$\frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})} = \mathbf{0.956762} \quad \mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{[\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] \right]^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}}{\left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}] \right] \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot (\mathbf{A} + \mathbf{B})^2}} = \mathbf{0}$$



N₁ = 1.75053
N₂ = 0.92724
N₃ = 1.21286
N₄ = 0.54218
N₅ = 0.70706
R = 1.48884

Unit.
AB := 1
Given.
N₁ := 1.75053
N₂ := .92724
N₃ := 1.21228
N₄ := .54218
N₅ := .70706

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{E \cdot [C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot [C \cdot (A + B) - A \cdot N_u]]} = 1.489541$$

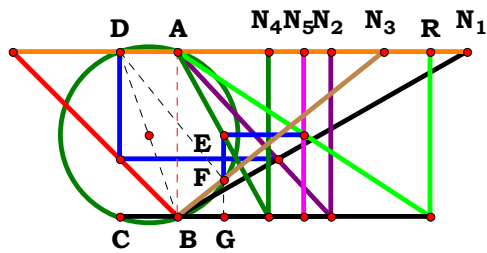
$$Num := \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$

$$Den := \frac{E \cdot [C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot [C \cdot (A + B) - A \cdot N_u]]}{\sqrt{[E \cdot [C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - D \cdot [C \cdot (A + B) - A \cdot N_u]]]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1
Den = 1
L = 1

$$L - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{E^2 \cdot [C^2 \cdot (A + B) - D \cdot [C \cdot (A + B) - A \cdot N_u] + N_u^2 \cdot (A + B)]^2}}{E \cdot [C^2 \cdot (A + B) - D \cdot [C \cdot (A + B) - A \cdot N_u] + N_u^2 \cdot (A + B)] \cdot \sqrt{N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



$N_1 = 1.75053$
 $N_2 = 0.92724$
 $N_3 = 1.25160$
 $N_4 = 0.55186$
 $N_5 = 0.76518$
 $R = 1.52823$

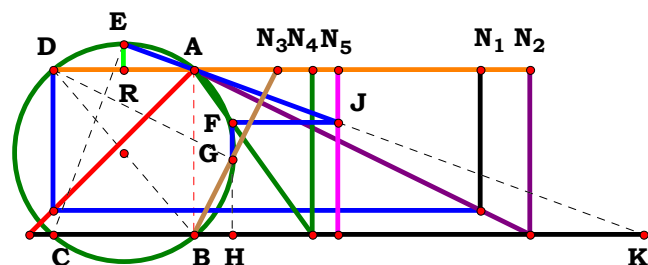
Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := .92724$ $N_3 := 1.25160$
 $N_4 := .55186$ $N_5 := .76518$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u]} = 1.52823 \qquad Num := \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (C^2 + N_u^2) \cdot (A + B)]^2}} \qquad Den := \frac{D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u]}{\sqrt{[D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u]]^2}} \qquad L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{D^2 \cdot E^2 \cdot [C \cdot (A + B) - A \cdot N_u]^2}}{D \cdot E \cdot [C \cdot (A + B) - A \cdot N_u] \cdot \sqrt{N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



N₁ = 1.73116
N₂ = 2.03142
N₃ = 0.50580
N₄ = 0.71652
N₅ = 0.87172
R = -0.42774

Unit. $AB := 1$ Given. $N_1 := 1.73116$ $N_2 := 2.03142$ $N_3 := .50580$

$$N_4 := .71652 \quad N_5 := .87172$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}}$$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) - [\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]]}{\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2} = -0.427738$$

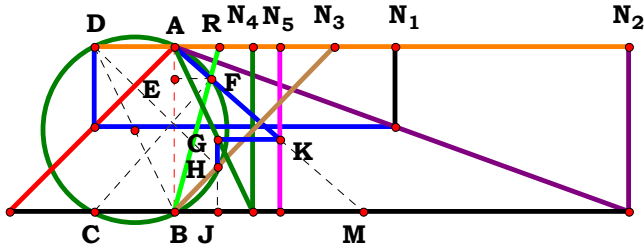
$$\mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) - [\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]]}{\sqrt{[\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) - [\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]]^2}}$$

$$\text{Den} := \frac{\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}{\sqrt{\left[\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = -1 Den = 1 L = -1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) - \left[\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \right] \right] \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\left[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right]^2}}{\left[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \right] \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot \left[\mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) - \left[\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \right] \right]^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}} = 0$$



N₁ = 1.33405
N₂ = 2.74817
N₃ = 0.97071
N₄ = 0.47437
N₅ = 0.63926
R = 0.27129

Unit. AB := 1 Given. N₁ := 1.33405 N₂ := 2.74817 N₃ := .97071
N₄ := .47437 N₅ := .63926
N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

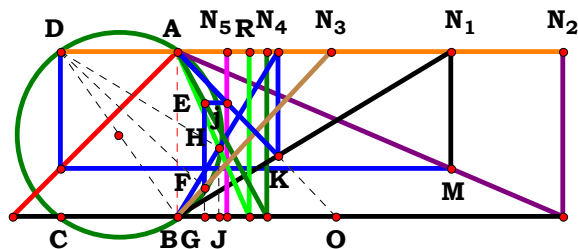
$$\frac{A \cdot \left[E \cdot D \cdot (A \cdot C - B \cdot N_u) - \left[B \cdot N_u \cdot (C^2 + N_u^2) \right] \right]}{E \cdot B \cdot D \cdot (A \cdot C - B \cdot N_u) + A^2 \cdot N_u \cdot (C^2 + N_u^2)} = \mathbf{0.271291}$$

$$\mathbf{Num} := \frac{A \cdot \left[E \cdot D \cdot (A \cdot C - B \cdot N_u) - \left[B \cdot N_u \cdot (C^2 + N_u^2) \right] \right]}{\sqrt{\left[A \cdot \left[E \cdot D \cdot (A \cdot C - B \cdot N_u) - \left[B \cdot N_u \cdot (C^2 + N_u^2) \right] \right] \right]^2}}$$

$$\mathbf{Den} := \frac{E \cdot B \cdot D \cdot (A \cdot C - B \cdot N_u) + A^2 \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{\left[E \cdot B \cdot D \cdot (A \cdot C - B \cdot N_u) + A^2 \cdot N_u \cdot (C^2 + N_u^2) \right]^2}} \qquad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{A \cdot \left[E \cdot D \cdot (A \cdot C - B \cdot N_u) - \left[B \cdot N_u \cdot (C^2 + N_u^2) \right] \right] \cdot \sqrt{\left[A^2 \cdot N_u \cdot (C^2 + N_u^2) + B \cdot D \cdot E \cdot (A \cdot C - B \cdot N_u) \right]^2}}{\sqrt{A^2 \cdot \left[E \cdot D \cdot (A \cdot C - B \cdot N_u) - \left[B \cdot N_u \cdot (C^2 + N_u^2) \right] \right]^2 \cdot \left[A^2 \cdot N_u \cdot (C^2 + N_u^2) + B \cdot D \cdot E \cdot (A \cdot C - B \cdot N_u) \right]}} = \mathbf{0}$$


$$\begin{aligned} N_1 &= 1.65368 \\ N_2 &= 2.33168 \\ N_3 &= 0.93197 \\ N_4 &= 0.54218 \\ N_5 &= 0.30026 \\ R &= 0.43139 \end{aligned}$$

Unit. $AB := 1$ **Given.** $N_1 := 1.65368$ $N_2 := 2.33168$ $N_3 := .93197$
 $N_4 := .54218$ $N_5 := .30026$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

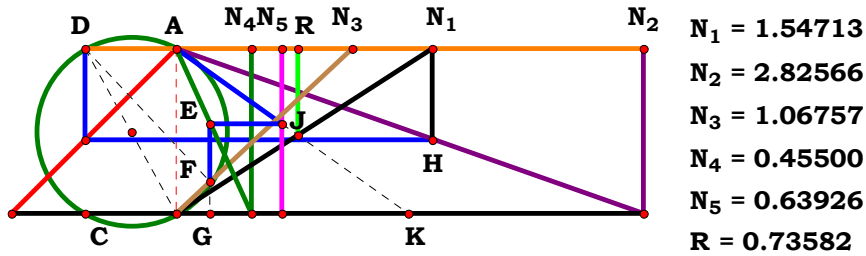
$$\frac{\mathbf{E} \cdot \mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u) + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N}_u)}{\mathbf{E} \cdot \mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u) + \mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{B} + \mathbf{N}_u)} = 0.431384$$

$$\mathbf{Num} := \frac{\mathbf{E} \cdot \mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{\left[\mathbf{E} \cdot \mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) \right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{E} \cdot \mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) + \mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{B} + \mathbf{N}_{\mathbf{u}})}{\sqrt{[\mathbf{E} \cdot \mathbf{B} \cdot \mathbf{D} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) + \mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{B} + \mathbf{N}_{\mathbf{u}})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\left[\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{B} + \mathbf{N}_u) + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u)\right]^2} \cdot \left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N}_u) + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u)\right]}{\left[\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{B} + \mathbf{N}_u) + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u)\right] \cdot \sqrt{\left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N}_u) + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_u)\right]^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 1.54713$

$N_2 := 2.82566$

$N_3 := 1.06757$

$N_4 := .455$

$N_5 := .63926$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot N_u \cdot \left(C^2 + N_u^2\right)}{A^2 \cdot \left(C^2 + N_u^2\right) + D \cdot E \cdot \left(A \cdot C - B \cdot N_u\right)} = 0.735811$$

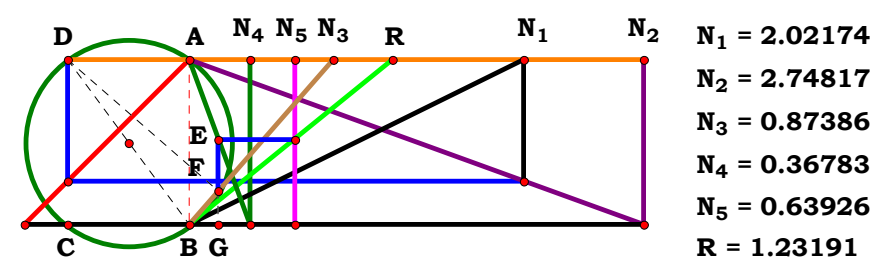
$$\text{Num} := \frac{A \cdot N_u \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[A \cdot N_u \cdot \left(C^2 + N_u^2\right)\right]^2}}$$

$$\text{Den} := \frac{A^2 \cdot \left(C^2 + N_u^2\right) + D \cdot E \cdot \left(A \cdot C - B \cdot N_u\right)}{\sqrt{\left[A^2 \cdot \left(C^2 + N_u^2\right) + D \cdot E \cdot \left(A \cdot C - B \cdot N_u\right)\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{A \cdot N_u \cdot \left(C^2 + N_u^2\right) \cdot \sqrt{\left[A^2 \cdot \left(C^2 + N_u^2\right) + D \cdot E \cdot \left(A \cdot C - B \cdot N_u\right)\right]^2}}{\left[A^2 \cdot \left(C^2 + N_u^2\right) + D \cdot E \cdot \left(A \cdot C - B \cdot N_u\right)\right] \cdot \sqrt{A^2 \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)^2}} = 0$$



Unit.
AB
:=
1
Given.
N1
:=
2.02174
N2
:=
2.74817
N3
:=
.87386
N4
:=
.36783
N5
:=
.63926
Nu
:=
3
A
:=
NuN1
B
:=
NuN2
C
:=
NuN3
D
:=
NuN4
E
:=
NuN5

Descriptions.

$$\frac{A \cdot N_u \cdot \left(C^2 + N_u^2\right)}{E \cdot \left[A \cdot C \cdot (C - D) + N_u \cdot \left(B \cdot D + A \cdot N_u\right)\right]} = 1.231892$$

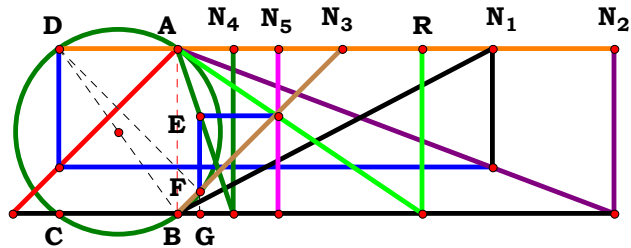
$$Num := \frac{A \cdot N_u \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[A \cdot N_u \cdot \left(C^2 + N_u^2\right)\right]^2}}$$

$$Den := \frac{E \cdot \left[A \cdot C \cdot (C - D) + N_u \cdot \left(B \cdot D + A \cdot N_u\right)\right]}{\sqrt{\left[E \cdot \left[A \cdot C \cdot (C - D) + N_u \cdot \left(B \cdot D + A \cdot N_u\right)\right]\right]^2}}$$

$$L := \frac{Num}{Den}$$

Num
=
1
Den
=
1
L
=
1

$$L - \frac{A \cdot N_u \cdot \sqrt{E^2 \cdot \left[N_u \cdot \left(B \cdot D + A \cdot N_u\right) + A \cdot C \cdot (C - D)\right]^2} \cdot \left(C^2 + N_u^2\right)}{E \cdot \left[N_u \cdot \left(B \cdot D + A \cdot N_u\right) + A \cdot C \cdot (C - D)\right] \cdot \sqrt{A^2 \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)^2}} = 0$$



$N_1 = 1.90551$
 $N_2 = 2.64163$
 $N_3 = 0.99977$
 $N_4 = 0.33877$
 $N_5 = 0.61020$
 $R = 1.48279$

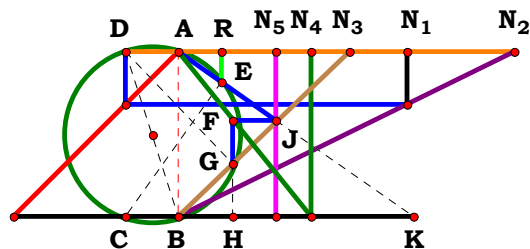
Unit. $AB := 1$ Given. $N_1 := 1.90551$ $N_2 := 2.64163$ $N_3 := .99977$
 $N_4 := .33877$ $N_5 := .61020$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot (A \cdot C \cdot D - B \cdot D \cdot N_u)} = 1.482764 \qquad \text{Num} := \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot N_u \cdot (C^2 + N_u^2)]^2}} \qquad \text{Den} := \frac{E \cdot (A \cdot C \cdot D - B \cdot D \cdot N_u)}{\sqrt{[E \cdot (A \cdot C \cdot D - B \cdot D \cdot N_u)]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot N_u \cdot \sqrt{E^2 \cdot (A \cdot C \cdot D - B \cdot D \cdot N_u)^2 \cdot (C^2 + N_u^2)}}{E \cdot (A \cdot C \cdot D - B \cdot D \cdot N_u) \cdot \sqrt{A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



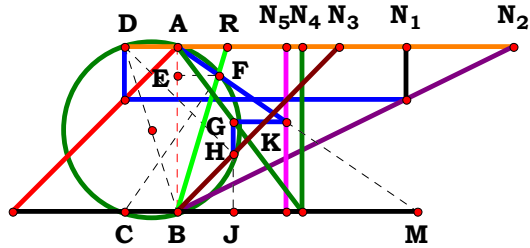
Unit. $AB := 1$ **Given.** $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := 1.03851$
 $N_4 := .80369$ $N_5 := .59083$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

$$\frac{\mathbf{A} \cdot \mathbf{N}_u \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot [\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B})] - \mathbf{N}_u \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{A} - \mathbf{B})]}{\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B})]^2 + \mathbf{A}^2 \cdot \mathbf{N}_u^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)^2} = \mathbf{0.256747}$$

$$\text{Den} := \frac{\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}{\sqrt{[\mathbf{E}^2 \cdot \mathbf{D}^2 \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B})] \cdot \sqrt{[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2]^2}}{[\mathbf{D}^2 \cdot \mathbf{E}^2 \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2] \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 \cdot [\mathbf{E} \cdot \mathbf{D} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B})]^2}} = 0$$



$N_1 = 1.38247$
 $N_2 = 2.03142$
 $N_3 = 0.98040$
 $N_4 = 0.75526$
 $N_5 = 0.65863$
 $R = 0.30377$

Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := .98040$
 $N_4 := .75526$ $N_5 := .65863$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

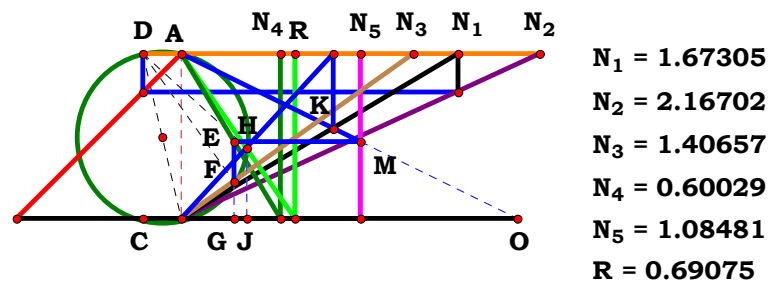
$$\frac{E \cdot A \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] - A \cdot N_u \cdot (C^2 + N_u^2) \cdot (A - B)}{E \cdot D \cdot (A - B) \cdot [A \cdot C - N_u \cdot (A - B)] + A^2 \cdot N_u \cdot (C^2 + N_u^2)} = 0.303773$$

$$Num := \frac{E \cdot A \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] - A \cdot N_u \cdot (C^2 + N_u^2) \cdot (A - B)}{\sqrt{[E \cdot A \cdot D \cdot [A \cdot C - N_u \cdot (A - B)] - A \cdot N_u \cdot (C^2 + N_u^2) \cdot (A - B)]^2}}$$

$$Den := \frac{E \cdot D \cdot (A - B) \cdot [A \cdot C - N_u \cdot (A - B)] + A^2 \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[E \cdot D \cdot (A - B) \cdot [A \cdot C - N_u \cdot (A - B)] + A^2 \cdot N_u \cdot (C^2 + N_u^2)]^2}} \quad L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{[A \cdot D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)] - A \cdot N_u \cdot (C^2 + N_u^2) \cdot (A - B)] \cdot \sqrt{[A^2 \cdot N_u \cdot (C^2 + N_u^2) + D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)] \cdot (A - B)]^2}}{[A^2 \cdot N_u \cdot (C^2 + N_u^2) + D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)] \cdot (A - B)] \cdot \sqrt{[A \cdot D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)] - A \cdot N_u \cdot (C^2 + N_u^2) \cdot (A - B)]^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 1.67305$ $N_2 := 2.16702$ $N_3 := 1.40657$
 $N_4 := .60029$ $N_5 := 1.08481$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{\mathbf{E} \cdot \mathbf{A} \cdot \mathbf{D} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{A}^2 - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]}{\mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + \mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_{\mathbf{u}})} = 0.690754$$

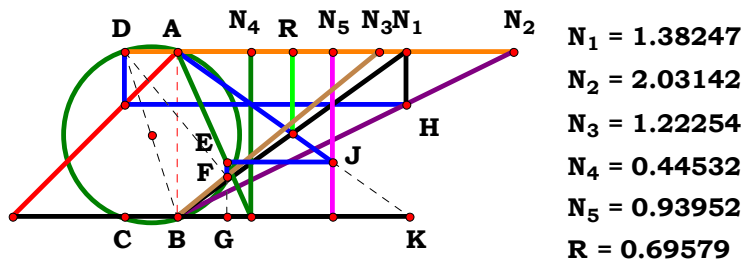
$$\mathbf{Num} := \frac{\mathbf{E} \cdot \mathbf{A} \cdot \mathbf{D} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{A}^2 - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]}{\sqrt{[\mathbf{E} \cdot \mathbf{A} \cdot \mathbf{D} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot [\mathbf{A}^2 - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]]^2}}$$

$$\text{Den} := \frac{\mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + \mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_{\mathbf{u}})}{\sqrt{[\mathbf{E} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + \mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_{\mathbf{u}})]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\left[\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_u) + \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B})] \cdot (\mathbf{A} - \mathbf{B})\right]^2 \cdot \left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot [\mathbf{A}^2 - \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B})] + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B})]\right]}}{\sqrt{\left[\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot [\mathbf{A}^2 - \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B})] + \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B})]\right]^2 \cdot \left[\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_u) + \mathbf{D} \cdot \mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{C} - \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B})] \cdot (\mathbf{A} - \mathbf{B})\right]}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 2.03142$ $N_3 := 1.22254$
 $N_4 := .44532$ $N_5 := .93952$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot N_u \cdot (C^2 + N_u^2)}{A^2 \cdot (C^2 + N_u^2) + D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)]} = 0.695788$$

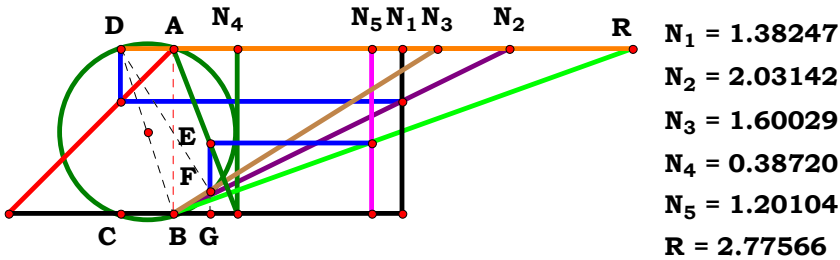
$$Num := \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot N_u \cdot (C^2 + N_u^2)]^2}}$$

$$Den := \frac{A^2 \cdot (C^2 + N_u^2) + D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)]}{\sqrt{[A^2 \cdot (C^2 + N_u^2) + D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)]]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot N_u \cdot \sqrt{[A^2 \cdot (C^2 + N_u^2) + D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)]]^2} \cdot (C^2 + N_u^2)}{[A^2 \cdot (C^2 + N_u^2) + D \cdot E \cdot [A \cdot C - N_u \cdot (A - B)]] \cdot \sqrt{A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.38247
N₂ := 2.03142
N₃ := 1.60029
N₄ := .38720
N₅ := 1.20104

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot N_u \cdot (C^2 + N_u^2)}{E \cdot \left[A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B) \right]} = 2.775673$$

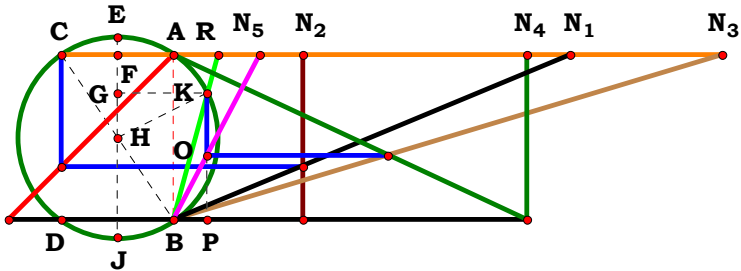
$$Num := \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{\left[A \cdot N_u \cdot (C^2 + N_u^2) \right]^2}}$$

$$Den := \frac{E \cdot \left[A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B) \right]}{\sqrt{\left[E \cdot \left[A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1
Den = 1
L = 1

$$L - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot \sqrt{E^2 \cdot \left[A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B) \right]^2}}{E \cdot \left[A \cdot (C^2 - D \cdot C + N_u^2) + D \cdot N_u \cdot (A - B) \right] \cdot \sqrt{A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



N₁ = 2.39948
N₂ = 0.78196
N₃ = 3.32436
N₄ = 2.14033
N₅ = 0.52303
R = 0.26797

Unit. AB := 1 Given. N₁ := 2.39948 N₂ := .78196 N₃ := 3.32436

N₄ := 2.14033 N₅ := .52303

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{2 \cdot C \cdot \left(\sqrt{N_u}\right)^3 \cdot \sqrt{B}}{\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)} = 0.267969$$

$$Num := \frac{2 \cdot C \cdot \left(\sqrt{N_u}\right)^3 \cdot \sqrt{B}}{\sqrt{\left[2 \cdot C \cdot \left(\sqrt{N_u}\right)^3 \cdot \sqrt{B}\right]^2}}$$

$$Den := \frac{\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)}{\sqrt{\left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)\right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{B} \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{\left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot E \cdot \sqrt{N_u} \cdot (C + D)\right]^2}}{\left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot E \cdot \sqrt{N_u} \cdot (C + D)\right] \cdot \sqrt{B \cdot C^2 \cdot N_u^3}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 3.70706$

$N_2 := 1.01441$

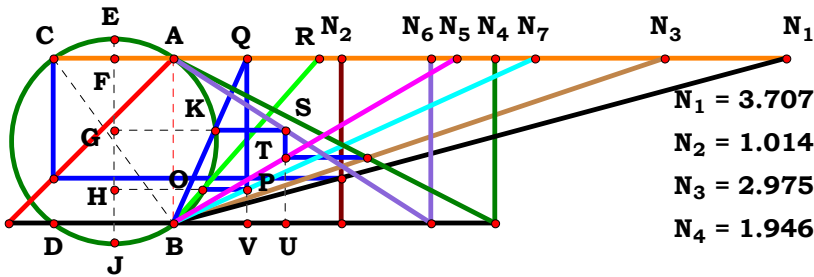
$N_3 := 2.97567$

$N_4 := 1.94661$

$N_5 := 1.71438$

$N_6 := 1.55941$

$N_7 := 2.18899$



$N_1 = 3.70706$

$N_2 = 1.01441$

$N_3 = 2.97567$

$N_4 = 1.94661$

$N_5 = 1.71438$

$N_6 = 1.55941$

$N_7 = 2.18899$

$R = 0.88032$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

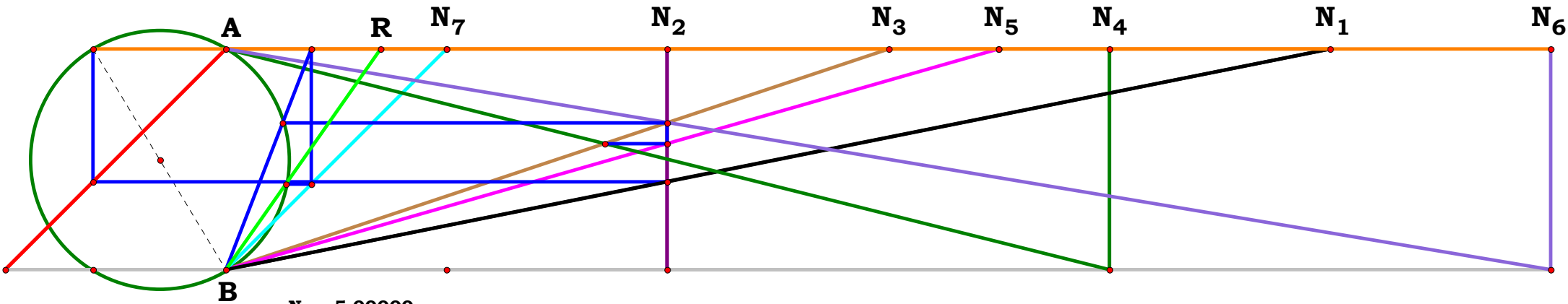
$$TU := \frac{N_4}{N_3 + N_4} \quad BU := N_5 \cdot TU$$

$$SU := \frac{N_6 - BU}{N_6} \quad GJ := SU + EF$$

$$GK := \sqrt{GJ \cdot (EJ - GJ)} \quad AQ := \frac{GK - AF}{SU}$$

$$PV := \frac{AQ}{N_7} \quad HJ := PV + EF$$

$$HO := \sqrt{HJ \cdot (EJ - HJ)} \quad R := \frac{HO - AF}{PV}$$



$N_1 = 5.00000$

$N_2 = 2.00000$

$N_3 = 3.00000$

$N_4 = 4.00000$

$N_5 = 3.50000$

$N_6 = 6.00000$

$N_7 = 1.00000$

$R = 0.70144$

$AB = 1.00000$

$AC = 0.60000$

$EJ = 1.16619$

$AF = 0.30000$

$EF = 0.08310$

$TU = 0.57143$

$BU = 2.00000$

$SU = 0.66667$

$GJ = 0.74976$

$GK = 0.55877$

$AQ = 0.38815$

$PV = 0.38815$

$HJ = 0.47125$

$HO = 0.57227$

$R - \frac{HO - AF}{PV} = 0.00000$

$R = 0.880317$



Unit.

AB := 1

Given.

N₁ := 4.20104

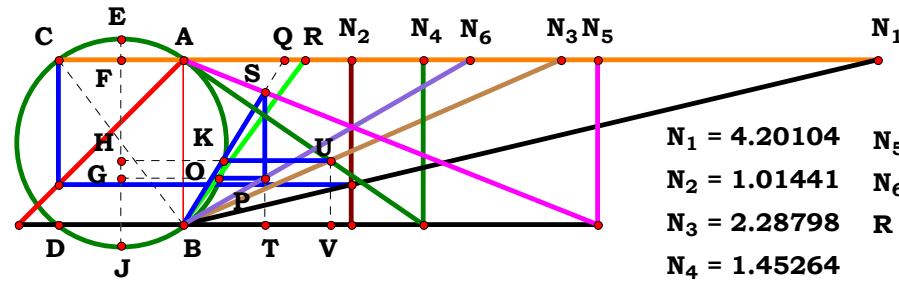
N₂ := 1.01441

N₃ := 2.28798

N₄ := 1.45264

N₅ := 2.50862

N₆ := 1.73376



Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

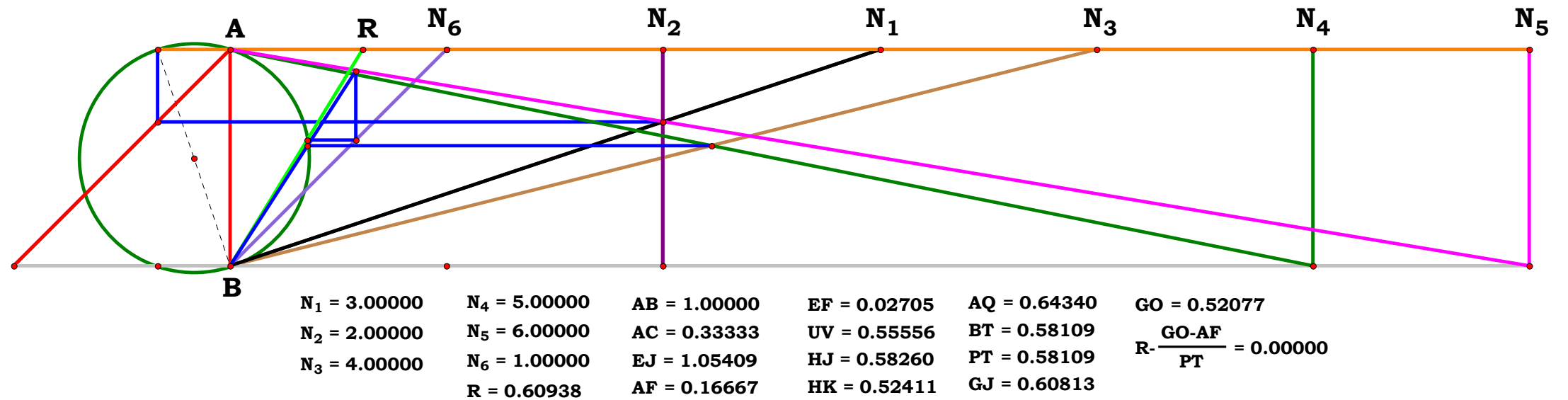
$$UV := \frac{N_4}{N_3 + N_4} \quad HJ := UV + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad AQ := \frac{HK - AF}{UV}$$

$$BT := \frac{AQ \cdot N_5}{AQ + N_5} \quad PT := \frac{BT}{N_6}$$

$$GJ := PT + EF \quad GO := \sqrt{GJ \cdot (EJ - GJ)}$$

$$R := \frac{GO - AF}{PT} \quad R = 0.738818$$



Definitions.

$$A := \left(2 \cdot N_5 - N_6 + N_6 \cdot \sqrt{AC^2 + 1} \right) \cdot (N_3 + N_4) \cdot AC - 2 \cdot N_4 \cdot N_5 \cdot N_6 \cdot \left(\sqrt{AC^2 + 1} - 1 \right)$$

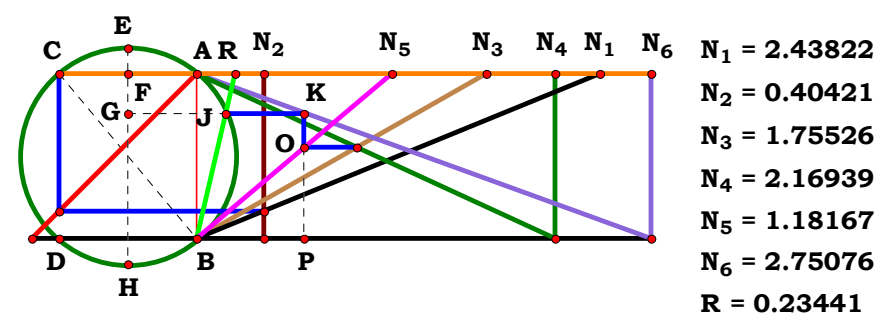
$$B := \left(N_6 - 2 \cdot N_5 + N_6 \cdot \sqrt{AC^2 + 1} \right) \cdot (N_3 + N_4) \cdot AC - 2 \cdot N_4 \cdot N_5 \cdot N_6 \cdot \left(\sqrt{AC^2 + 1} + 1 \right)$$

$$C := \left(2 \cdot N_5 - N_6 + N_6 \cdot \sqrt{AC^2 + 1} \right) \cdot (N_3 + N_4)$$

$$D := \left(N_6 - 2 \cdot N_5 + N_6 \cdot \sqrt{AC^2 + 1} \right) \cdot (N_3 + N_4) \quad P := \sqrt{(N_3 + N_4)^2 \cdot AC^2 + 4 \cdot N_3 \cdot N_4}$$

$$X := \sqrt{\left[A \cdot \sqrt{(N_3 + N_4)^2 - C \cdot P} \right] \cdot \left[B \cdot \sqrt{(N_3 + N_4)^2 - D \cdot P} \right]} \quad Y := \sqrt{16 \cdot N_6^2 \cdot \left[P \cdot (N_3 + N_4) + \left[2 \cdot N_4 \cdot N_5 - AC \cdot (N_3 + N_4) \right] \cdot \sqrt{(N_3 + N_4)^2} \right]^2}$$

$$R - \frac{N_6 \cdot (AC \cdot Y - 4 \cdot X) \cdot \left[\left[AC \cdot \sqrt{(N_3 + N_4)^2 - P} \right] \cdot (N_3 + N_4) - 2 \cdot N_4 \cdot N_5 \cdot \sqrt{(N_3 + N_4)^2} \right]}{2 \cdot N_5 \cdot Y \cdot \left[P - AC \cdot \sqrt{(N_3 + N_4)^2} \right] \cdot (N_3 + N_4)} = 0$$



Unit.

AB := 1

Given.

N₁ := 2.43822

N₂ := .40421

N₃ := 1.75526

N₄ := 2.16939

N₅ := 1.18167

N₆ := 2.75076

N_u := 3

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

E := $\frac{N_u}{N_5}$

F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B)}}{2 \cdot B \cdot (C \cdot E - C \cdot F + D \cdot E)} = 0.234414$$

$$\text{Num} := \frac{\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B)}}{\sqrt{\left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B)}\right]^2}}$$

Den := $\frac{2 \cdot B \cdot (C \cdot E - C \cdot F + D \cdot E)}{\sqrt{[2 \cdot B \cdot (C \cdot E - C \cdot F + D \cdot E)]^2}}$

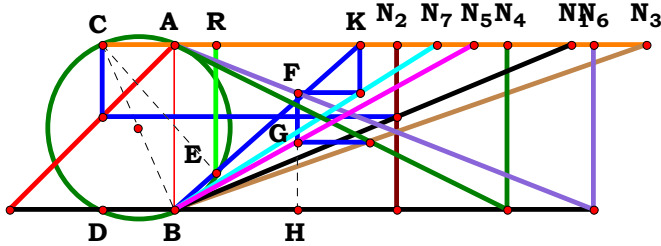
L := $\frac{\text{Num}}{\text{Den}}$

Num = 1

Den = 1

L = 1

$$L - \frac{\left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B)}\right] \cdot \sqrt{B^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2}}{B \cdot \sqrt{\left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B)}\right]^2} \cdot (C \cdot E - C \cdot F + D \cdot E)} = 0$$



N₁ = 2.39948
N₂ = 1.34373
N₃ = 2.85944
N₄ = 2.01441
N₅ = 1.81124
N₆ = 2.53768
N₇ = 1.58847
R = 0.25202

Unit. AB := 1 Given. N₁ := 2.39938 N₂ := 1.34373 N₃ := 2.85944 N₄ := 2.01441
N₅ := 1.81124 N₆ := 2.53768 N₇ := 1.58847

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}} \quad \mathbf{G} := \frac{\mathbf{N_u}}{\mathbf{N_7}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}] \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot \left[\mathbf{B} \cdot \mathbf{G} + \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right] - \mathbf{C} \cdot \mathbf{F} \cdot \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right]}{\mathbf{B} \cdot \left[\mathbf{E}^2 \cdot \left(\mathbf{G}^2 + \mathbf{N_u}^2\right) \cdot (\mathbf{C} + \mathbf{D})^2 - 2 \cdot \mathbf{E} \cdot \mathbf{C} \cdot \mathbf{F} \cdot \mathbf{N_u}^2 \cdot (\mathbf{C} + \mathbf{D}) + \mathbf{C}^2 \cdot \mathbf{F}^2 \cdot \mathbf{N_u}^2\right]} = \mathbf{0.252028}$$

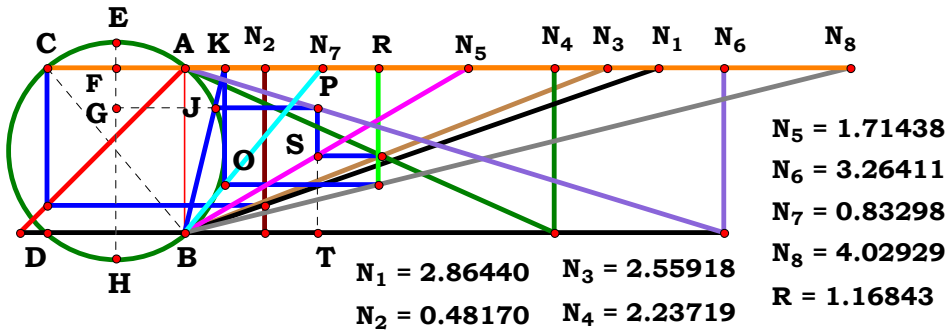
$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}] \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot \left[\mathbf{B} \cdot \mathbf{G} + \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right] - \mathbf{C} \cdot \mathbf{F} \cdot \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right]}{\sqrt{\left[\mathbf{N_u} \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}] \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot \left[\mathbf{B} \cdot \mathbf{G} + \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right] - \mathbf{C} \cdot \mathbf{F} \cdot \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right]\right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot \left[\mathbf{E}^2 \cdot \left(\mathbf{G}^2 + \mathbf{N_u}^2\right) \cdot (\mathbf{C} + \mathbf{D})^2 - 2 \cdot \mathbf{E} \cdot \mathbf{C} \cdot \mathbf{F} \cdot \mathbf{N_u}^2 \cdot (\mathbf{C} + \mathbf{D}) + \mathbf{C}^2 \cdot \mathbf{F}^2 \cdot \mathbf{N_u}^2\right]}{\sqrt{\left[\mathbf{B} \cdot \left[\mathbf{E}^2 \cdot \left(\mathbf{G}^2 + \mathbf{N_u}^2\right) \cdot (\mathbf{C} + \mathbf{D})^2 - 2 \cdot \mathbf{E} \cdot \mathbf{C} \cdot \mathbf{F} \cdot \mathbf{N_u}^2 \cdot (\mathbf{C} + \mathbf{D}) + \mathbf{C}^2 \cdot \mathbf{F}^2 \cdot \mathbf{N_u}^2\right]\right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{Num} = \mathbf{1} \quad \mathbf{Den} = \mathbf{1} \quad \mathbf{L} = \mathbf{1}$$

$$\mathbf{L} - \frac{\mathbf{N_u} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})] \cdot \sqrt{\mathbf{B}^2 \cdot \left[\mathbf{E}^2 \cdot \left(\mathbf{G}^2 + \mathbf{N_u}^2\right) \cdot (\mathbf{C} + \mathbf{D})^2 + \mathbf{C}^2 \cdot \mathbf{F}^2 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{C} \cdot \mathbf{E} \cdot \mathbf{F} \cdot \mathbf{N_u}^2 \cdot (\mathbf{C} + \mathbf{D})\right]^2} \cdot \left[\mathbf{E} \cdot \left[\mathbf{B} \cdot \mathbf{G} + \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right] \cdot (\mathbf{C} + \mathbf{D}) - \mathbf{C} \cdot \mathbf{F} \cdot \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right]}{\mathbf{B} \cdot \left[\mathbf{E}^2 \cdot \left(\mathbf{G}^2 + \mathbf{N_u}^2\right) \cdot (\mathbf{C} + \mathbf{D})^2 + \mathbf{C}^2 \cdot \mathbf{F}^2 \cdot \mathbf{N_u}^2 - 2 \cdot \mathbf{C} \cdot \mathbf{E} \cdot \mathbf{F} \cdot \mathbf{N_u}^2 \cdot (\mathbf{C} + \mathbf{D})\right] \cdot \sqrt{\mathbf{N_u}^2 \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})]^2} \cdot \left[\mathbf{E} \cdot \left[\mathbf{B} \cdot \mathbf{G} + \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right] \cdot (\mathbf{C} + \mathbf{D}) - \mathbf{C} \cdot \mathbf{F} \cdot \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{B})\right]^2} = \mathbf{0}$$



Unit.

AB := 1

Given.

N₁ := 2.86440

N₂ := .48170

N₃ := 2.55918

N₄ := 2.23719

N₅ := 1.71438

N₆ := 3.26411

N₇ := .83298

N₈ := 4.02929

N_u := 3

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

E := $\frac{N_u}{N_5}$

F := $\frac{N_u}{N_6}$

G := $\frac{N_u}{N_7}$

H := $\frac{N_u}{N_8}$

Descriptions.

$$\frac{G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right]}{2 \cdot B \cdot H \cdot [C \cdot (E - F) + D \cdot E]} = 1.168423$$

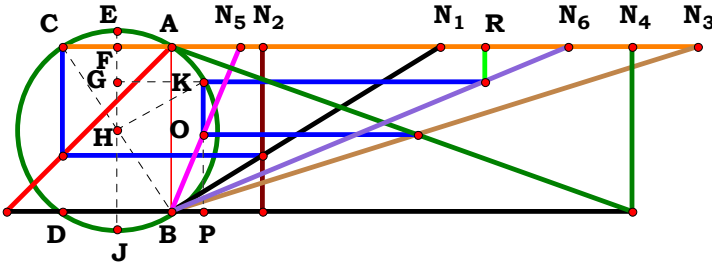
$$\text{Num} := \frac{G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right]}{\sqrt{\left[G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right] \right]^2}}$$

Den := $\frac{2 \cdot B \cdot H \cdot [C \cdot (E - F) + D \cdot E]}{\sqrt{[2 \cdot B \cdot H \cdot [C \cdot (E - F) + D \cdot E]]^2}}$

L := $\frac{\text{Num}}{\text{Den}}$

Num = 1 Den = 1 L = 1

$$L - \frac{G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right] \cdot \sqrt{B^2 \cdot H^2 \cdot [D \cdot E + C \cdot (E - F)]^2}}{B \cdot H \cdot [D \cdot E + C \cdot (E - F)] \cdot \sqrt{G^2 \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right]^2}} = 0$$



N₁ = 1.62462
N₂ = 0.54950
N₃ = 3.18876
N₄ = 2.78928
N₅ = 0.41649
N₆ = 2.40207
R = 1.89571

Unit.
AB := 1
Given.
N₁ := 1.62462
N₂ := .54950
N₃ := 3.18875
N₄ := 2.78928
N₅ := .41649
N₆ := 2.40207

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

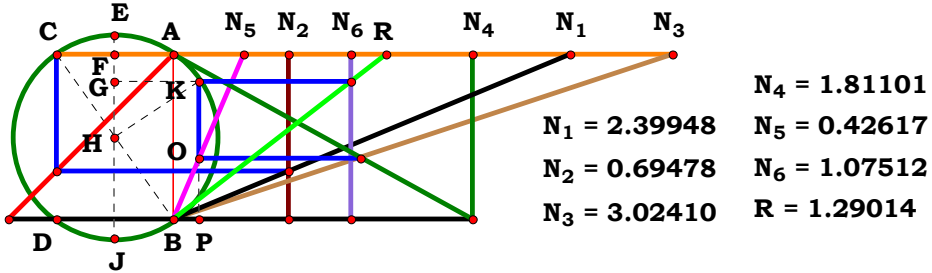
$$\frac{\sqrt{N_u} \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B) \right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]}{2 \cdot F \cdot (C + D) \cdot \sqrt{B \cdot E}} = 1.895708$$

$$Num := \frac{\sqrt{N_u} \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B) \right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]}{\sqrt{\left[\sqrt{N_u} \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B) \right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right] \right]^2}}$$

Den := $\frac{2 \cdot F \cdot (C + D) \cdot \sqrt{B \cdot E}}{\sqrt{\left[2 \cdot F \cdot (C + D) \cdot \sqrt{B \cdot E} \right]^2}}$
L := $\frac{Num}{Den}$

Num = 1
Den = 1
L = 1

$$L - \frac{\sqrt{N_u} \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B) \right] + \sqrt{B \cdot E} \cdot \sqrt{N_u} \cdot (C + D) \right] \cdot \sqrt{B \cdot E^2 \cdot F^2 \cdot (C + D)^2}}{\sqrt{B \cdot E \cdot F \cdot (C + D)} \cdot \sqrt{N_u} \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B) \right] + \sqrt{B \cdot E} \cdot \sqrt{N_u} \cdot (C + D) \right]^2} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 2.39948$

$N_2 := .69478$

$N_3 := 3.02410$

$N_4 := 1.81101$

$N_5 := .42617$

$N_6 := 1.07512$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (C + D) \cdot \sqrt{B} \cdot E}{F \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)}\right]} = 1.290132$$

$$Num := \frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (C + D) \cdot \sqrt{B} \cdot E}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (C + D) \cdot \sqrt{B} \cdot E\right]^2}}$$

$$Den := \frac{F \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)}\right]}{\sqrt{\left[F \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)}\right]^2}}$$

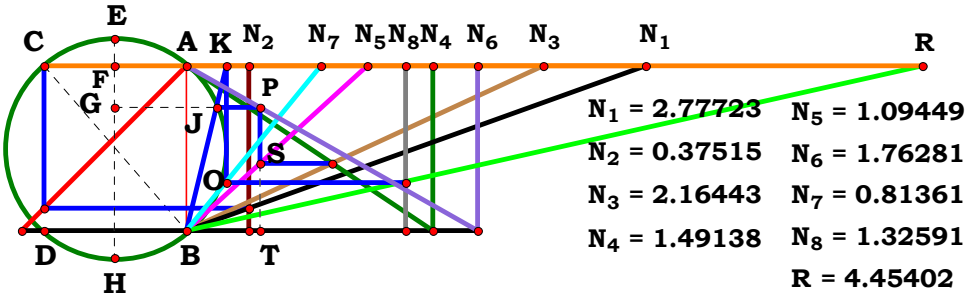
$$L := \frac{Num}{Den}$$

Num = 1

Den = 1

L = 1

$$L - \frac{\sqrt{B} \cdot E \cdot N_u^{\frac{3}{2}} \cdot \sqrt{F^2 \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot E \cdot \sqrt{N_u} \cdot (C + D)}\right]^2 \cdot (C + D)}}{F \cdot \left[\sqrt{N_u} \cdot \left[B \cdot E^2 \cdot (C + D)^2 - 4 \cdot B \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + \sqrt{B} \cdot E \cdot \sqrt{N_u} \cdot (C + D)}\right] \cdot \sqrt{B \cdot E^2 \cdot N_u^3 \cdot (C + D)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.77723$ $N_2 := .37515$ $N_3 := 2.16443$ $N_4 := 1.49138$
 $N_5 := 1.09449$ $N_6 := 1.76281$ $N_7 := .81361$ $N_8 := 1.32591$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$ $H := \frac{N_u}{N_8}$

Descriptions.

$$\frac{2 \cdot B \cdot N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}{G \cdot H \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right]} = 4.454068$$

$$\text{Den} := \frac{G \cdot H \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right]}{\sqrt{\left[G \cdot H \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right] \right]^2}}$$

Num = 1 Den = 1 L = 1

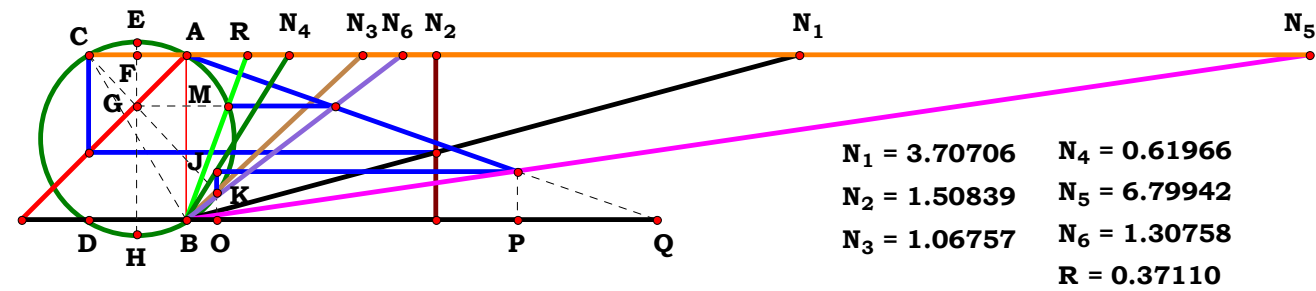
$$L - \frac{B \cdot N_u^2 \cdot \sqrt{G^2 \cdot H^2 \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right]^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}}{G \cdot H \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2} + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) + E \cdot (C + D) \cdot (A - B) \right] \cdot \sqrt{B^2 \cdot N_u^4 \cdot (C \cdot E - C \cdot F + D \cdot E)^2}} = 0$$

$$\text{Num} := \frac{2 \cdot B \cdot N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}{\sqrt{\left[2 \cdot B \cdot N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$



Unit.
 AB := 1
 Given.
 N₁ := 3.70706
 N₂ := 1.50839
 N₃ := 1.06757
 N₄ := .61966
 N₅ := 6.79942
 N₆ := 1.30758



Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$KN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$$

$$JO := \frac{BO}{N_4} \quad BP := N_5 \cdot JO$$

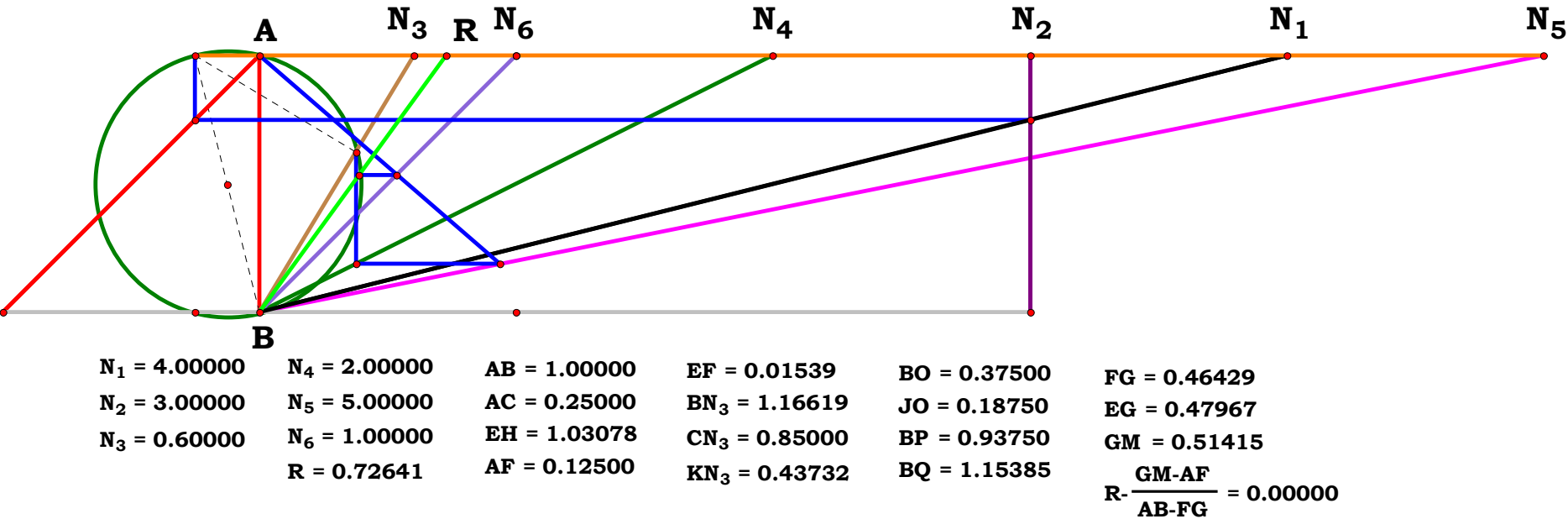
$$BQ := \frac{BP \cdot AB}{AB - JO} \quad FG := \frac{N_6}{BQ + N_6}$$

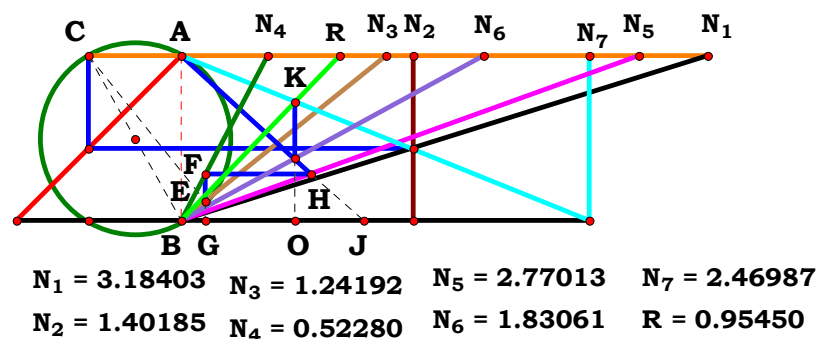
$$EG := FG + EF \quad GM := \sqrt{EG \cdot (EH - EG)}$$

$$R := \frac{GM - AF}{AB - FG} \quad R = 0.371102$$

Definitions.

$$R - \frac{\sqrt{N_1^4 \cdot (N_1 - N_2) \cdot [N_6 \cdot [N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)] - N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3)] \dots} + -N_1^2 \cdot \sqrt{N_6^2 \cdot (N_1 - N_2)^2 \cdot [N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)]^2 + N_3^2 \cdot N_5^2 \cdot (N_1 - N_2)^2 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3)^2 \dots} + -2 \cdot N_3 \cdot N_5 \cdot N_6 \cdot (3 \cdot N_1^2 - 2 \cdot N_1 \cdot N_2 + N_2^2) \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) \cdot [N_3^2 \cdot (N_1 - N_2 + N_1 \cdot N_4) - N_1 \cdot (N_3 - N_4)]}{2 \cdot N_1 \cdot N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) \cdot \sqrt{N_1^4}} = 0$$





Unit. AB := 1 Given. $N_1 := 3.18403$ $N_2 := 1.40185$ $N_3 := 1.24192$ $N_4 := .52280$
 $N_5 := 2.77013$ $N_6 := 1.83061$ $N_7 := 2.46987$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

Descriptions.

$$\frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]}{\mathbf{F} \cdot \mathbf{D} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + [\mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \cdot \mathbf{E} - \mathbf{G} \cdot \mathbf{D} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]} = 0.954505$$

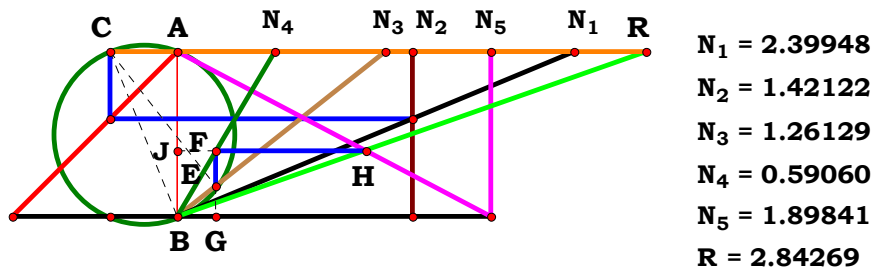
$$\mathbf{Num} := \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]}{\sqrt{[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]]^2}}$$

$$\text{Den} := \frac{\mathbf{F} \cdot \mathbf{D} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + [\mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \cdot \mathbf{E} - \mathbf{G} \cdot \mathbf{D} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]}{\sqrt{[\mathbf{F} \cdot \mathbf{D} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] + [\mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \cdot \mathbf{E} - \mathbf{G} \cdot \mathbf{D} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]}^2}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \cdot \sqrt{\left[\mathbf{E} \cdot \left[\mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) \right] + \mathbf{D} \cdot \mathbf{G} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] - \mathbf{D} \cdot \mathbf{F} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \right]^2}}{\left[\mathbf{E} \cdot \left[\mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) - \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{D} - \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) \right] + \mathbf{D} \cdot \mathbf{G} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] - \mathbf{D} \cdot \mathbf{F} \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})] \right] \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot [\mathbf{B} \cdot \mathbf{C} + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2}} = 0$$



$$\begin{array}{l} \text{Unit.} \quad AB := 1 \quad \text{Given.} \quad N_1 := 2.39948 \quad N_2 := 1.42122 \quad N_3 := 1.26129 \\ N_4 := .59060 \quad N_5 := 1.89841 \\ N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \end{array}$$

Descriptions.

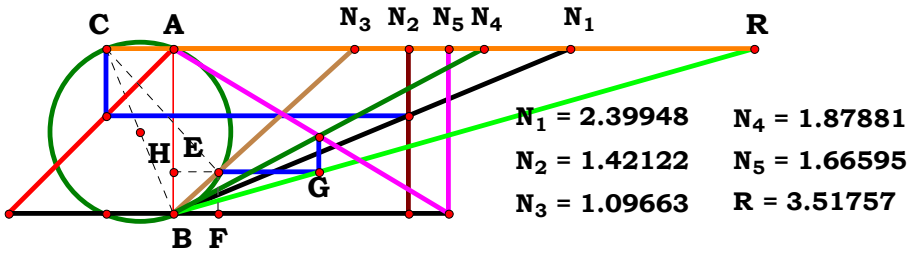
$$\frac{B \cdot N_u^3 - D \cdot N_u^2 \cdot (A - B) + B \cdot C \cdot N_u \cdot (C - D)}{D \cdot E \cdot [B \cdot C + N_u \cdot (A - B)]} = 2.842644$$

$$\text{Num} := \frac{B \cdot N_u^3 - D \cdot N_u^2 \cdot (A - B) + B \cdot C \cdot N_u \cdot (C - D)}{\sqrt{[B \cdot N_u^3 - D \cdot N_u^2 \cdot (A - B) + B \cdot C \cdot N_u \cdot (C - D)]^2}}$$

$$\text{Den} := \frac{D \cdot E \cdot [B \cdot C + N_u \cdot (A - B)]}{\sqrt{[D \cdot E \cdot [B \cdot C + N_u \cdot (A - B)]]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\sqrt{D^2 \cdot E^2 \cdot [B \cdot C + N_u \cdot (A - B)]^2} \cdot [B \cdot N_u^3 - D \cdot (A - B) \cdot N_u^2 + B \cdot C \cdot (C - D) \cdot N_u]}{D \cdot E \cdot [B \cdot C + N_u \cdot (A - B)] \cdot \sqrt{[B \cdot N_u^3 - D \cdot (A - B) \cdot N_u^2 + B \cdot C \cdot (C - D) \cdot N_u]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := 1.09663$

$N_4 := 1.87881$ $N_5 := 1.66595$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{B \cdot N_u \cdot (C^2 + N_u^2)}{C \cdot (D + E) \cdot [B \cdot C + N_u \cdot (A - B)]} = 3.517552$$

$$\text{Num} := \frac{B \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot N_u \cdot (C^2 + N_u^2)]^2}}$$

$$\text{Den} := \frac{C \cdot (D + E) \cdot [B \cdot C + N_u \cdot (A - B)]}{\sqrt{[C \cdot (D + E) \cdot [B \cdot C + N_u \cdot (A - B)]]^2}}$$

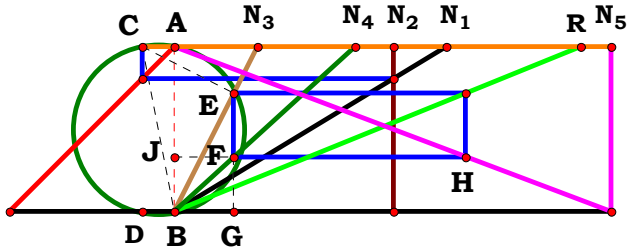
$$L := \frac{\text{Num}}{\text{Den}}$$

$Num = 1$

$Den = 1$

$L = 1$

$$L - \frac{B \cdot N_u \cdot (C^2 + N_u^2) \cdot \sqrt{C^2 \cdot [B \cdot C + N_u \cdot (A - B)]^2 \cdot (D + E)^2}}{C \cdot [B \cdot C + N_u \cdot (A - B)] \cdot (D + E) \cdot \sqrt{B^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



N₁ = 1.64399
 N₂ = 1.32436
 N₃ = 0.50580
 N₄ = 1.09426
 N₅ = 2.64422
 R = 2.46063

Unit. AB := 1 Given. N₁ := 1.64399 N₂ := 1.32436 N₃ := .50580

 N₄ := 1.09426 N₅ := 2.64422

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

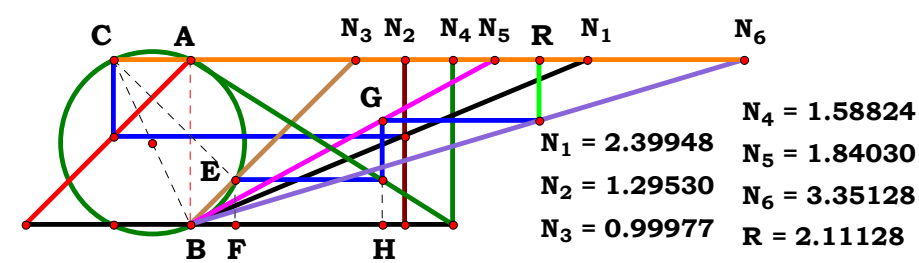
$$\frac{N_u \cdot \left[B \cdot N_u^2 - D \cdot N_u \cdot (A - B) + B \cdot C \cdot (C - D) \right]}{B \cdot C^2 \cdot E + C \cdot E \cdot N_u \cdot (A - B)} = 2.460633$$

$$Num := \frac{N_u \cdot \left[B \cdot N_u^2 - D \cdot N_u \cdot (A - B) + B \cdot C \cdot (C - D) \right]}{\sqrt{\left[N_u \cdot \left[B \cdot N_u^2 - D \cdot N_u \cdot (A - B) + B \cdot C \cdot (C - D) \right] \right]^2}}$$

$$Den := \frac{B \cdot C^2 \cdot E + C \cdot E \cdot N_u \cdot (A - B)}{\sqrt{\left[B \cdot C^2 \cdot E + C \cdot E \cdot N_u \cdot (A - B) \right]^2}} \qquad L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot \sqrt{\left[B \cdot E \cdot C^2 + E \cdot N_u \cdot (A - B) \cdot C \right]^2} \cdot \left[B \cdot N_u^2 - D \cdot (A - B) \cdot N_u + B \cdot C \cdot (C - D) \right]}{\left[B \cdot E \cdot C^2 + E \cdot N_u \cdot (A - B) \cdot C \right] \cdot \sqrt{N_u^2 \cdot \left[B \cdot N_u^2 - D \cdot (A - B) \cdot N_u + B \cdot C \cdot (C - D) \right]^2}} = 0$$



Unit. AB := 1 Given. N₁ := 2.39948 N₂ := 1.29530 N₃ := .99977

N₄ := 1.58824 N₅ := 1.84030 N₆ := 3.35128

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$ F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{E \cdot N_u^2 \cdot [B \cdot N_u - C \cdot (A - B)]}{F \cdot B \cdot D \cdot (C^2 + N_u^2)} = 2.111274$$

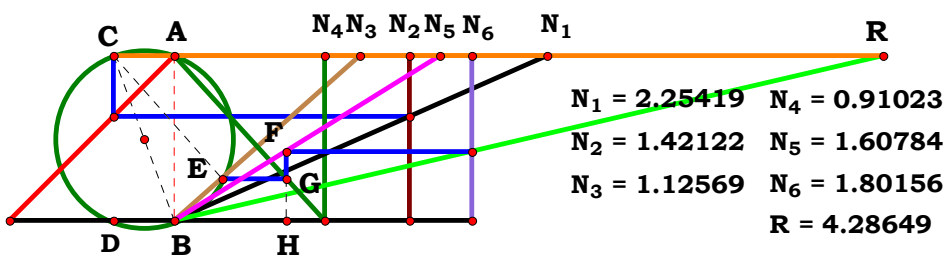
$$\text{Num} := \frac{E \cdot N_u^2 \cdot [B \cdot N_u - C \cdot (A - B)]}{\sqrt{[E \cdot N_u^2 \cdot [B \cdot N_u - C \cdot (A - B)]]^2}}$$

$$\text{Den} := \frac{F \cdot B \cdot D \cdot (C^2 + N_u^2)}{\sqrt{[F \cdot B \cdot D \cdot (C^2 + N_u^2)]^2}}$$

L := $\frac{\text{Num}}{\text{Den}}$

Num = 1 Den = 1 L = 1

$$L - \frac{E \cdot N_u^2 \cdot [B \cdot N_u - C \cdot (A - B)] \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (C^2 + N_u^2)^2}}{B \cdot D \cdot F \cdot (C^2 + N_u^2) \cdot \sqrt{E^2 \cdot N_u^4 \cdot [B \cdot N_u - C \cdot (A - B)]^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 2.25419$

$N_2 := 1.42122$

$N_3 := 1.12569$

$N_4 := .91023$

$N_5 := 1.60784$

$N_6 := 1.80156$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

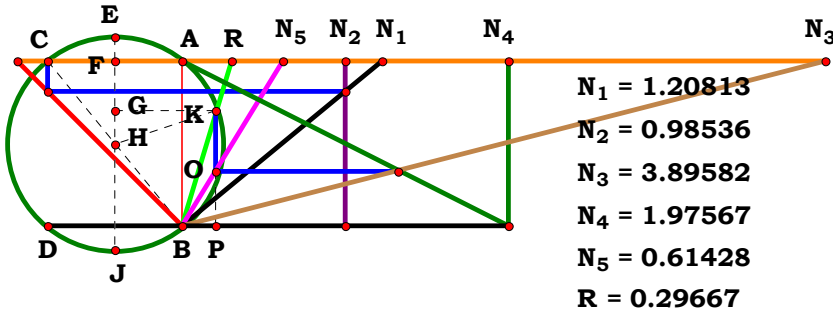
$$\frac{B \cdot D \cdot (C^2 + N_u^2)}{E \cdot F \cdot [B \cdot N_u - C \cdot (A - B)]} = 4.28652$$

$$Num := \frac{B \cdot D \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot D \cdot (C^2 + N_u^2)]^2}}$$

$$Den := \frac{E \cdot F \cdot [B \cdot N_u - C \cdot (A - B)]}{\sqrt{[E \cdot F \cdot [B \cdot N_u - C \cdot (A - B)]]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{B \cdot D \cdot (C^2 + N_u^2) \cdot \sqrt{E^2 \cdot F^2 \cdot [B \cdot N_u - C \cdot (A - B)]^2}}{E \cdot F \cdot [B \cdot N_u - C \cdot (A - B)] \cdot \sqrt{B^2 \cdot D^2 \cdot (C^2 + N_u^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.20813$ $N_2 := .98536$ $N_3 := 3.89582$
 $N_4 := 1.97567$ $N_5 := .61428$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{2 \cdot C \cdot \left(\sqrt{N_u}\right)^3 \cdot \sqrt{B}}{\sqrt{N_u} \cdot \left[E^2 \cdot B \cdot (C + D)^2 - 4 \cdot E \cdot A \cdot C \cdot N_u \cdot (C + D) - 4 \cdot B \cdot C^2 \cdot N_u^2\right] + \sqrt{N_u} \cdot \sqrt{B} \cdot E \cdot (C + D)} = 0.296676$$
$$\text{Den} := \frac{\sqrt{N_u} \cdot \left[E^2 \cdot B \cdot (C + D)^2 - 4 \cdot E \cdot A \cdot C \cdot N_u \cdot (C + D) - 4 \cdot B \cdot C^2 \cdot N_u^2\right] + \sqrt{N_u} \cdot \sqrt{B} \cdot E \cdot (C + D)}{\sqrt{\left[\sqrt{N_u} \cdot \left[E^2 \cdot B \cdot (C + D)^2 - 4 \cdot E \cdot A \cdot C \cdot N_u \cdot (C + D) - 4 \cdot B \cdot C^2 \cdot N_u^2\right] + \sqrt{N_u} \cdot \sqrt{B} \cdot E \cdot (C + D)\right]^2}}$$

$$\text{Num} := \frac{2 \cdot C \cdot \left(\sqrt{N_u}\right)^3 \cdot \sqrt{B}}{\sqrt{\left[2 \cdot C \cdot \left(\sqrt{N_u}\right)^3 \cdot \sqrt{B}\right]^2}}$$
$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{\sqrt{B} \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{\left[\sqrt{-N_u} \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D)\right] + \sqrt{B} \cdot E \cdot \sqrt{N_u} \cdot (C + D)\right]^2}}{\left[\sqrt{-N_u} \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D)\right] + \sqrt{B} \cdot E \cdot \sqrt{N_u} \cdot (C + D)\right] \cdot \sqrt{B \cdot C^2 \cdot N_u^3}} = 0$$



Unit.

AB := 1

Given.

N₄ := 2.88613

N₁ := 2.66100

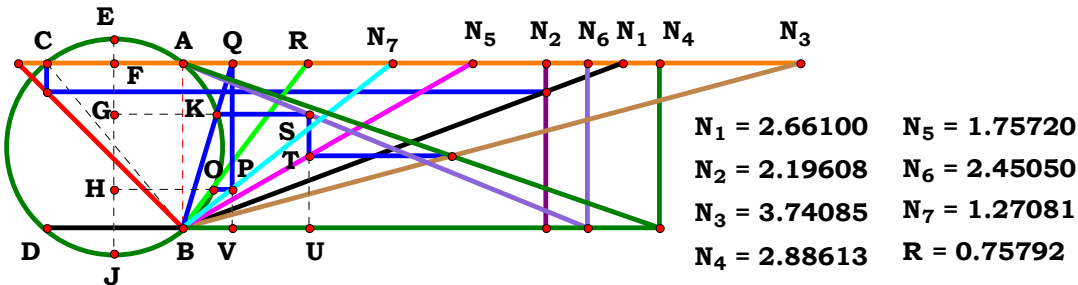
N₂ := 2.19608

N₃ := 3.74085

N₅ := 1.75720

N₆ := 2.45050

N₇ := 1.27081



Descriptions.

AC := $\frac{N_2}{N_1}$

EJ := $\sqrt{AB^2 + AC^2}$

AF := $\frac{AC}{2}$

EF := $\frac{EJ - AB}{2}$

TU := $\frac{N_4}{N_3 + N_4}$

BU := N₅ · TU

SU := $\frac{N_6 - BU}{N_6}$

GJ := SU + EF

GK := $\sqrt{GJ \cdot (EJ - GJ)}$

AQ := $\frac{GK - AF}{SU}$

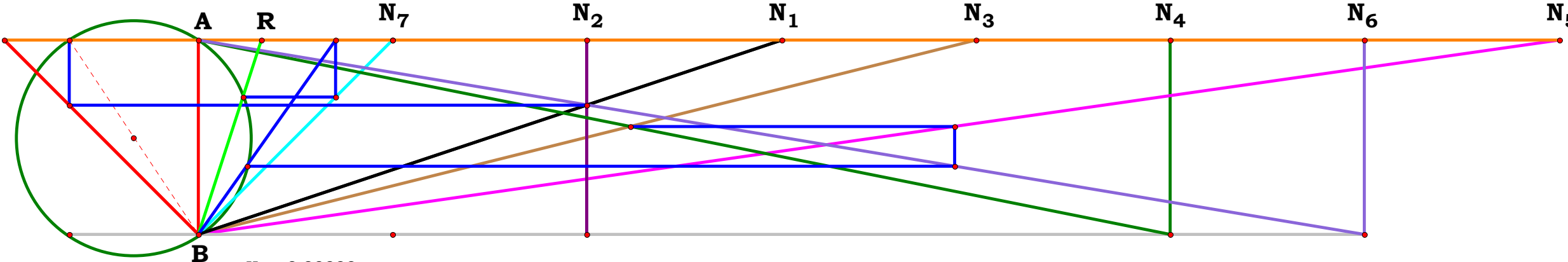
PV := $\frac{AQ}{N_7}$

HJ := PV + EF

HO := $\sqrt{HJ \cdot (EJ - HJ)}$

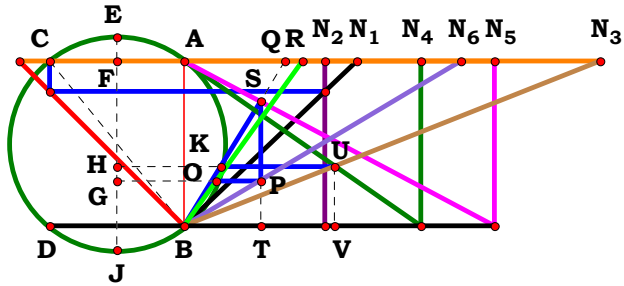
R := $\frac{HO - AF}{PV}$

R = 0.757925





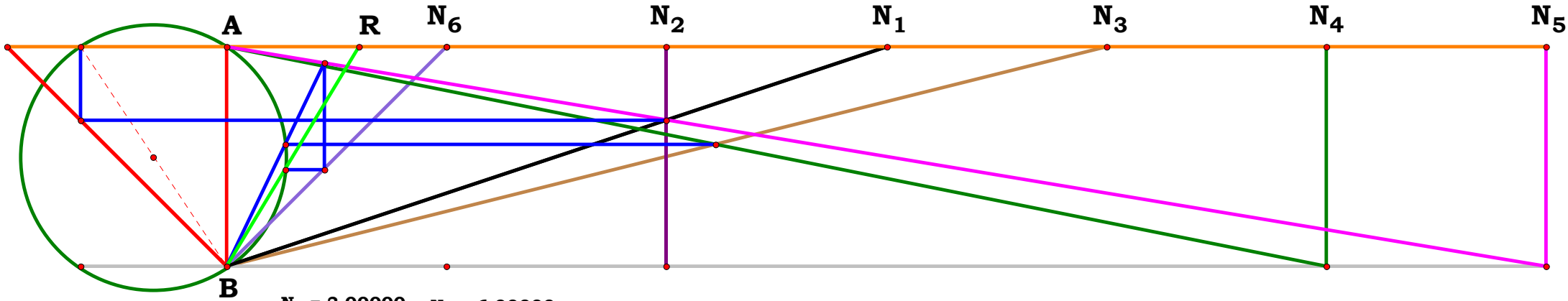
Unit.
AB := 1
Given.
N₁ := 1.04347
N₂ := .84976
N₃ := 2.52044
N₄ := 1.43327
N₅ := 1.88311
N₆ := 1.67564



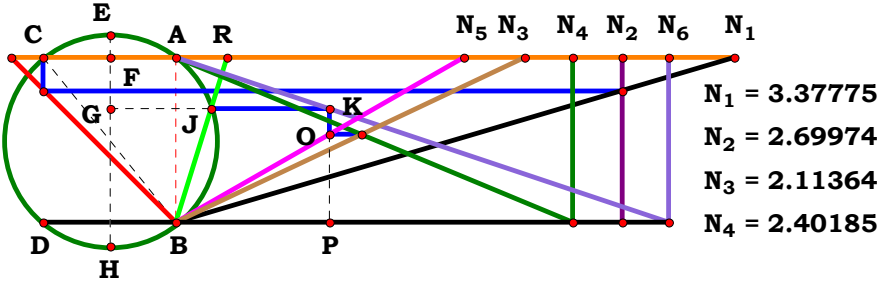
N₁ = 1.04347 **N₅** = 1.88311
N₂ = 0.84976 **N₆** = 1.67564
N₃ = 2.52044 **R** = 0.71485
N₄ = 1.43327

Descriptions.

$$AC := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$
$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$
$$UV := \frac{N_4}{N_3 + N_4} \quad HJ := UV + EF$$
$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad AQ := \frac{HK - AF}{UV}$$
$$BT := \frac{AQ \cdot N_5}{AQ + N_5} \quad PT := \frac{BT}{N_6}$$
$$GJ := PT + EF \quad GO := \sqrt{GJ \cdot (EJ - GJ)}$$
$$R := \frac{GO - AF}{PT} \quad R = 0.714844$$



N₁ = 3.00000	N₅ = 6.00000	AB = 1.00000	EF = 0.10093	AQ = 0.47703	GO = 0.59811
N₂ = 2.00000	N₆ = 1.00000	AC = 0.66667	UV = 0.55556	BT = 0.44190	R - $\frac{GO - AF}{PT}$ = 0.00000
N₃ = 4.00000	R = 0.59918	EJ = 1.20185	HJ = 0.65648	PT = 0.44190	
N₄ = 5.00000		AF = 0.33333	HK = 0.59835	GJ = 0.54282	



Unit. **AB** := 1 Given. **N₁** := 3.37775 **N₂** := 2.69974 **N₃** := 2.11364

N₄ := 2.40185 **N₅** := 1.74751 **N₆** := 2.98322

$$\mathbf{N_u} := 3 \qquad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \qquad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \qquad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \qquad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \qquad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \qquad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}}$$

Descriptions.

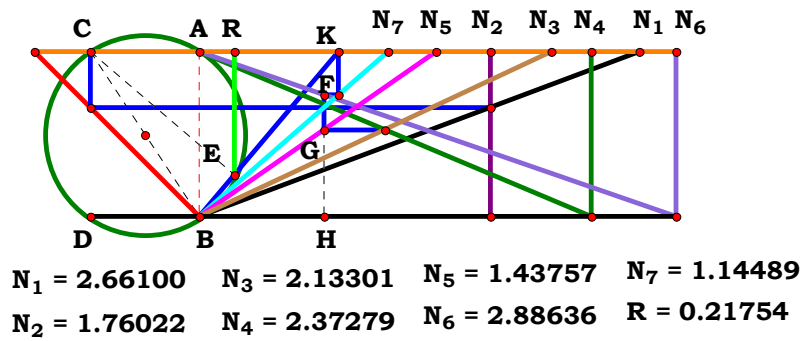
$$\frac{\sqrt{\mathbf{A^2 \cdot E^2 \cdot (C + D)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) - A \cdot E \cdot (C + D)}}}{2 \cdot \mathbf{B \cdot (C \cdot E - C \cdot F + D \cdot E)}} = \mathbf{0.308084}$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{A^2 \cdot E^2 \cdot (C + D)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) - A \cdot E \cdot (C + D)}}}{\sqrt{\left[\sqrt{\mathbf{A^2 \cdot E^2 \cdot (C + D)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) - A \cdot E \cdot (C + D)}}\right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{B \cdot (C \cdot E - C \cdot F + D \cdot E)}}{\sqrt{\left[2 \cdot \mathbf{B \cdot (C \cdot E - C \cdot F + D \cdot E)}\right]^2}} \qquad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{Num} = 1 \qquad \mathbf{Den} = 1 \qquad \mathbf{L} = 1$$

$$\mathbf{L} - \frac{\sqrt{\mathbf{B^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 \cdot \left[\sqrt{\mathbf{A^2 \cdot E^2 \cdot (C + D)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) - A \cdot E \cdot (C + D)}}\right]}}}{\mathbf{B \cdot \sqrt{\left[\sqrt{\mathbf{A^2 \cdot E^2 \cdot (C + D)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) - A \cdot E \cdot (C + D)}}\right]^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}}} = \mathbf{0}$$



Descriptions.

$$\frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [E \cdot (C + D) \cdot (B \cdot G - A \cdot N_u) + A \cdot C \cdot F \cdot N_u]}{E^2 \cdot B \cdot (G^2 + N_u^2) \cdot (C + D)^2 - 2 \cdot E \cdot B \cdot C \cdot F \cdot N_u^2 \cdot (C + D) + B \cdot C^2 \cdot F^2 \cdot N_u^2} = 0.217541$$

$$\text{Num} := \frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [E \cdot (C + D) \cdot (B \cdot G - A \cdot N_u) + A \cdot C \cdot F \cdot N_u]}{\sqrt{[N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [E \cdot (C + D) \cdot (B \cdot G - A \cdot N_u) + A \cdot C \cdot F \cdot N_u]]^2}}$$

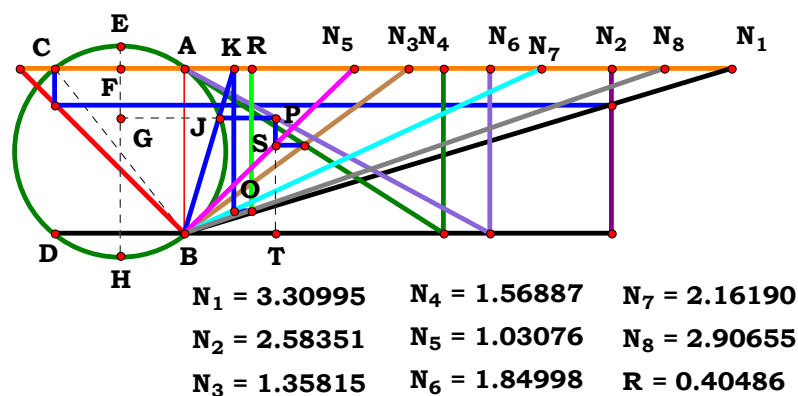
$$\text{Den} := \frac{E^2 \cdot B \cdot (G^2 + N_u^2) \cdot (C + D)^2 - 2 \cdot E \cdot B \cdot C \cdot F \cdot N_u^2 \cdot (C + D) + B \cdot C^2 \cdot F^2 \cdot N_u^2}{\sqrt{[E^2 \cdot B \cdot (G^2 + N_u^2) \cdot (C + D)^2 - 2 \cdot E \cdot B \cdot C \cdot F \cdot N_u^2 \cdot (C + D) + B \cdot C^2 \cdot F^2 \cdot N_u^2]^2}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot [D \cdot E + C \cdot (E - F)] \cdot \sqrt{[B \cdot E^2 \cdot (G^2 + N_u^2) \cdot (C + D)^2 + B \cdot C^2 \cdot F^2 \cdot N_u^2 - 2 \cdot B \cdot C \cdot E \cdot F \cdot N_u^2 \cdot (C + D)]^2} \cdot [E \cdot (C + D) \cdot (B \cdot G - A \cdot N_u) + A \cdot C \cdot F \cdot N_u]}{\sqrt{N_u^2 \cdot [D \cdot E + C \cdot (E - F)]^2 \cdot [E \cdot (C + D) \cdot (B \cdot G - A \cdot N_u) + A \cdot C \cdot F \cdot N_u]^2 \cdot [B \cdot E^2 \cdot (G^2 + N_u^2) \cdot (C + D)^2 + B \cdot C^2 \cdot F^2 \cdot N_u^2 - 2 \cdot B \cdot C \cdot E \cdot F \cdot N_u^2 \cdot (C + D)]}} = 0$$

Unit. $AB := 1$ Given. $N_1 := 2.66100$ $N_2 := 1.76022$ $N_3 := 2.13301$ $N_4 := 2.37279$
 $N_5 := 1.43757$ $N_6 := 2.88636$ $N_7 := 1.14489$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

$$L := \frac{\text{Num}}{\text{Den}}$$



$$\begin{array}{l} \text{Unit.} \quad \text{AB} := 1 \quad \text{Given.} \quad N_1 := 3.30995 \quad N_2 := 2.58351 \quad N_3 := 1.35815 \quad N_4 := 1.56887 \\ \quad \quad \quad N_5 := 1.03076 \quad N_6 := 1.84998 \quad N_7 := 2.16190 \quad N_8 := 2.90655 \\ N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8} \end{array}$$

Descriptions.

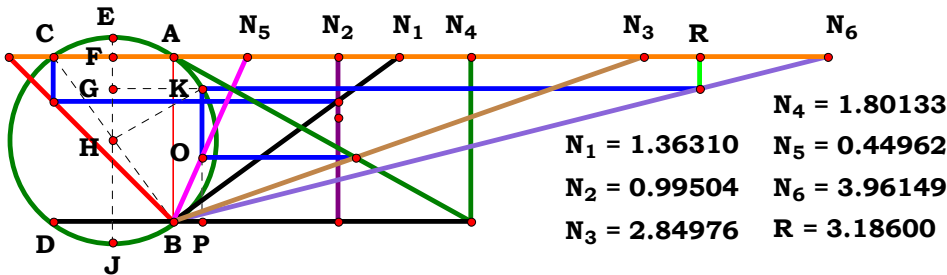
$$\frac{\mathbf{G} \cdot \left[\sqrt{\mathbf{E}^2 \cdot \mathbf{A}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{E} \cdot \mathbf{B}^2 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{C} + \mathbf{D}) - 4 \cdot \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{F}^2} - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \right]}{2 \cdot \mathbf{B} \cdot \mathbf{H} \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})} = 0.404856$$

$$\mathbf{Num} := \frac{\mathbf{G} \cdot \left[\sqrt{\mathbf{E}^2 \cdot \mathbf{A}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{E} \cdot \mathbf{B}^2 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{C} + \mathbf{D}) - 4 \cdot \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{F}^2} - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \right]}{\sqrt{\left[\mathbf{G} \cdot \left[\sqrt{\mathbf{E}^2 \cdot \mathbf{A}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{E} \cdot \mathbf{B}^2 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{C} + \mathbf{D}) - 4 \cdot \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{F}^2} - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \right] \right]^2}}$$

$$\text{Den} := \frac{2 \cdot \mathbf{B} \cdot \mathbf{H} \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})}{\sqrt{[2 \cdot \mathbf{B} \cdot \mathbf{H} \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{G} \cdot [\sqrt{\mathbf{A}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 - 4 \cdot \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{F}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{C} \cdot \mathbf{E} \cdot \mathbf{F} \cdot (\mathbf{C} + \mathbf{D}) - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})}] \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{H}^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})^2}}{\mathbf{B} \cdot \mathbf{H} \cdot \sqrt{\mathbf{G}^2 \cdot [\sqrt{\mathbf{A}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 - 4 \cdot \mathbf{B}^2 \cdot \mathbf{C}^2 \cdot \mathbf{F}^2 + 4 \cdot \mathbf{B}^2 \cdot \mathbf{C} \cdot \mathbf{E} \cdot \mathbf{F} \cdot (\mathbf{C} + \mathbf{D}) - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})}]^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})}} = 0$$



Unit.
AB
:=
1
Given.
N1
:=
1.36310
N2
:=
.99504
N3
:=
2.84976
N4
:=
1.80133
N5
:=
.44962
N6
:=
3.96149
Nu
:=
3
A
:=
NuN1
B
:=
NuN2
C
:=
NuN3
D
:=
NuN4
E
:=
NuN5
F
:=
NuN6

Descriptions.

$$\frac{\sqrt{N_u} \cdot \left[\sqrt{-N_u \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]}{2 \cdot F \cdot (C + D) \cdot \sqrt{B \cdot E}}$$

3.18599

$$Num := \frac{\sqrt{N_u} \cdot \left[\sqrt{-N_u \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]}{\sqrt{\left[\sqrt{N_u} \cdot \left[\sqrt{-N_u \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]^2}}$$

$$Den := \frac{2 \cdot F \cdot (C + D) \cdot \sqrt{B \cdot E}}{\sqrt{\left[2 \cdot F \cdot (C + D) \cdot \sqrt{B \cdot E} \right]^2}}$$

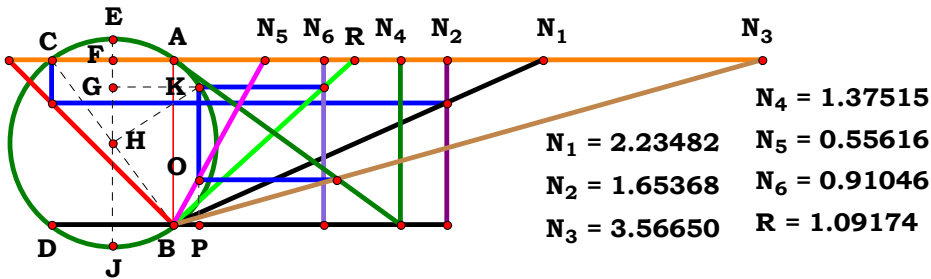
$$L := \frac{Num}{Den}$$

Num
=
1

Den
=
1

L
=
1

$$L - \frac{\sqrt{N_u} \cdot \left[\sqrt{-N_u \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{B \cdot E} \cdot \sqrt{N_u} \cdot (C + D) \right] \cdot \sqrt{B \cdot E^2 \cdot F^2 \cdot (C + D)^2}}{\sqrt{B \cdot E \cdot F \cdot (C + D)} \cdot \sqrt{N_u \cdot \left[\sqrt{-N_u \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{B \cdot E} \cdot \sqrt{N_u} \cdot (C + D) \right]^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 2.23482$

$N_2 := 1.65368$

$N_3 := 3.56650$

$N_4 := 1.37515$

$N_5 := .55616$

$N_6 := .91046$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (C + D) \cdot \sqrt{B} \cdot E}{F \cdot \left[\sqrt{N_u} \cdot \left[E^2 \cdot B \cdot (C + D)^2 - 4 \cdot E \cdot A \cdot C \cdot N_u \cdot (C + D) - 4 \cdot B \cdot C^2 \cdot N_u^2\right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)\right]} = 1.091738$$

$$\text{Den} := \frac{F \cdot \left[\sqrt{N_u} \cdot \left[E^2 \cdot B \cdot (C + D)^2 - 4 \cdot E \cdot A \cdot C \cdot N_u \cdot (C + D) - 4 \cdot B \cdot C^2 \cdot N_u^2\right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)\right]}{\sqrt{\left[F \cdot \left[\sqrt{N_u} \cdot \left[E^2 \cdot B \cdot (C + D)^2 - 4 \cdot E \cdot A \cdot C \cdot N_u \cdot (C + D) - 4 \cdot B \cdot C^2 \cdot N_u^2\right] + \sqrt{B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)\right]\right]^2}}$$

$$\text{Num} := \frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (C + D) \cdot \sqrt{B} \cdot E}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (C + D) \cdot \sqrt{B} \cdot E\right]^2}}$$

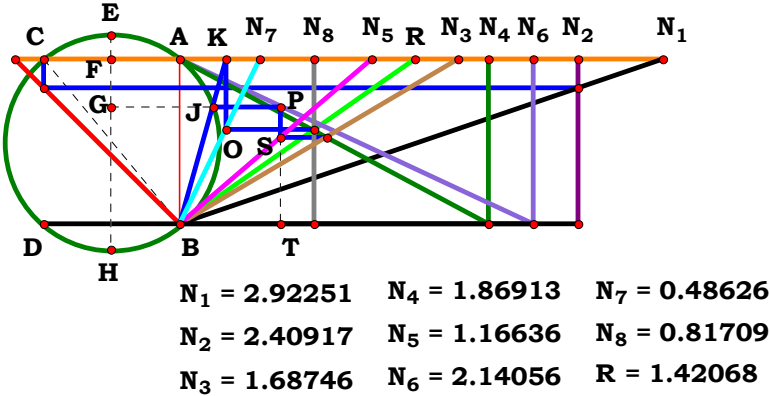
$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1

Den = 1

L = 1

$$L - \frac{\sqrt{B} \cdot E \cdot N_u^{\frac{3}{2}} \cdot \sqrt{F^2 \cdot \left[\sqrt{-N_u} \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D)\right] + \sqrt{B} \cdot E \cdot \sqrt{N_u} \cdot (C + D)\right]^2 \cdot (C + D)}}{F \cdot \left[\sqrt{-N_u} \cdot \left[4 \cdot B \cdot C^2 \cdot N_u^2 - B \cdot E^2 \cdot (C + D)^2 + 4 \cdot A \cdot C \cdot E \cdot N_u \cdot (C + D)\right] + \sqrt{B} \cdot E \cdot \sqrt{N_u} \cdot (C + D)\right] \cdot \sqrt{B \cdot E^2 \cdot N_u^3 \cdot (C + D)^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 2.92251$

$N_2 := 2.40917$

$N_3 := 1.68746$

$N_4 := 1.86913$

$N_5 := 1.16636$

$N_6 := 2.14056$

$N_7 := .48626$

$N_8 := .81709$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

$G := \frac{N_u}{N_7}$

$H := \frac{N_u}{N_8}$

Descriptions.

$$\frac{2 \cdot B \cdot N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}{G \cdot H \cdot \left[\sqrt{E^2 \cdot A^2 \cdot (C + D)^2 + 4 \cdot E \cdot B^2 \cdot C \cdot F \cdot (C + D) - 4 \cdot B^2 \cdot C^2 \cdot F^2} - A \cdot E \cdot (C + D) \right]} = 1.420686$$

$$\text{Den} := \frac{G \cdot H \cdot \left[\sqrt{E^2 \cdot A^2 \cdot (C + D)^2 + 4 \cdot E \cdot B^2 \cdot C \cdot F \cdot (C + D) - 4 \cdot B^2 \cdot C^2 \cdot F^2} - A \cdot E \cdot (C + D) \right]}{\sqrt{\left[G \cdot H \cdot \left[\sqrt{E^2 \cdot A^2 \cdot (C + D)^2 + 4 \cdot E \cdot B^2 \cdot C \cdot F \cdot (C + D) - 4 \cdot B^2 \cdot C^2 \cdot F^2} - A \cdot E \cdot (C + D) \right] \right]^2}}$$

$$\text{Num} := \frac{B \cdot N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}{\sqrt{\left[B \cdot N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

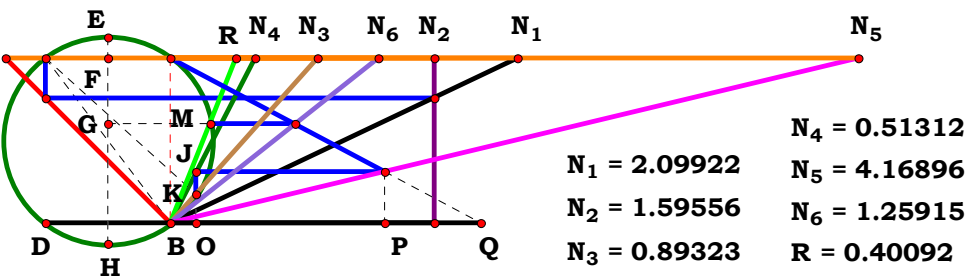
$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{B \cdot N_u^2 \cdot \sqrt{G^2 \cdot H^2 \cdot \left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) - A \cdot E \cdot (C + D) \right]^2} \cdot (C \cdot E - C \cdot F + D \cdot E)}}{G \cdot H \cdot \left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 - 4 \cdot B^2 \cdot C^2 \cdot F^2 + 4 \cdot B^2 \cdot C \cdot E \cdot F \cdot (C + D) - A \cdot E \cdot (C + D)} \right] \cdot \sqrt{B^2 \cdot N_u^4 \cdot (C \cdot E - C \cdot F + D \cdot E)^2}} = 0$$



Unit.
 AB := 1
 Given.
 N₁ := 2.09922
 N₂ := 1.59556

N₃ := .89323
 N₄ := .51312
 N₅ := 4.16896
 N₆ := 1.25915



Descriptions.

$$AC := \frac{N_2}{N_1} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$KN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$$

$$JO := \frac{BO}{N_4} \quad BP := N_5 \cdot JO$$

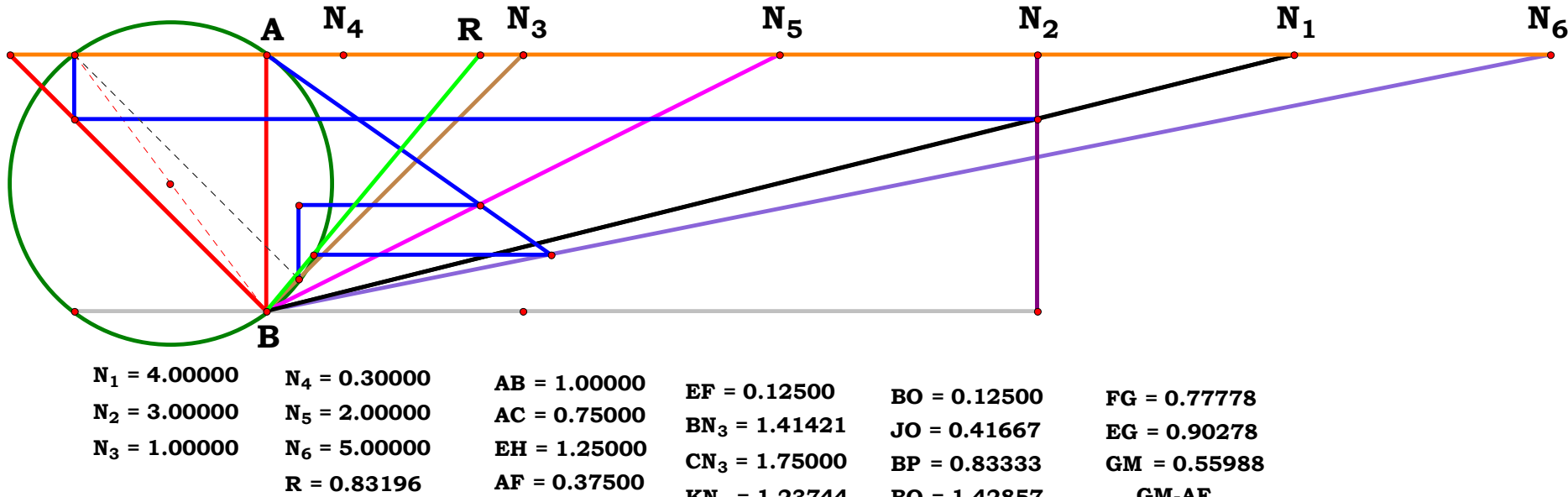
$$BQ := \frac{BP \cdot AB}{AB - JO} \quad FG := \frac{N_6}{BQ + N_6}$$

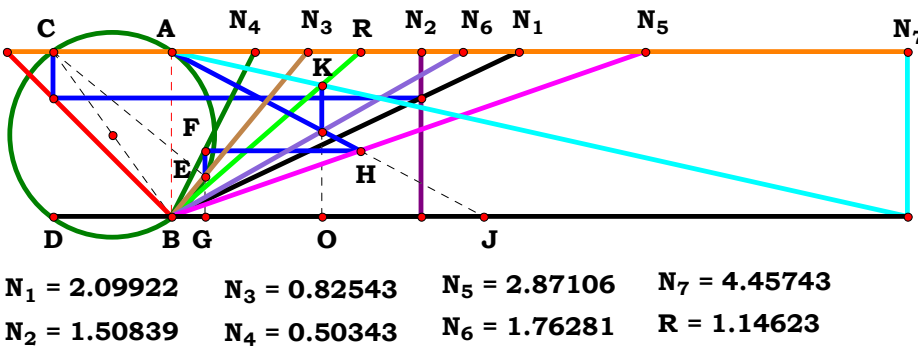
$$EG := FG + EF \quad GM := \sqrt{EG \cdot (EH - EG)}$$

$$R := \frac{GM - AF}{AB - FG} \quad R = 0.400923$$

Definitions.

$$R - \frac{\sqrt{N_1^2 \cdot N_2^2 \cdot N_4^2 \cdot N_6^2 \cdot (N_3^2 + 1)^2 - N_3^2 \cdot (N_1 - N_2 \cdot N_3)^2 \cdot [2 \cdot N_5 \cdot N_6 \cdot (2 \cdot N_1^2 + N_2^2) - N_2^2 \cdot (N_5^2 + N_6^2)]} \dots \cdot N_1^2 \dots + 2 \cdot N_1 \cdot N_3 \cdot N_4 \cdot N_6 \cdot (N_1 - N_2 \cdot N_3) \cdot (N_3^2 + 1) \cdot (2 \cdot N_1^2 \cdot N_5 + N_2^2 \cdot N_5 - N_2^2 \cdot N_6) + -\sqrt{N_1^4 \cdot N_2} \cdot [N_1 \cdot N_4 \cdot N_6 \cdot (N_3^2 + 1) + N_3 \cdot (N_5 - N_6) \cdot (N_1 - N_2 \cdot N_3)]}{2 \cdot N_1 \cdot N_3 \cdot N_5 \cdot (N_1 - N_2 \cdot N_3) \cdot \sqrt{N_1^4}} = 0$$





Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.50839$ $N_3 := .82543$ $N_4 := .50343$
 $N_5 := 2.87106$ $N_6 := 1.76281$ $N_7 := 4.45743$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

Descriptions.

$$\frac{D \cdot N_u \cdot (B \cdot C - A \cdot N_u)}{E \cdot [B \cdot C \cdot (C - D) + N_u \cdot (A \cdot D + B \cdot N_u)] + D \cdot (F - G) \cdot (B \cdot C - A \cdot N_u)} = 1.146228$$

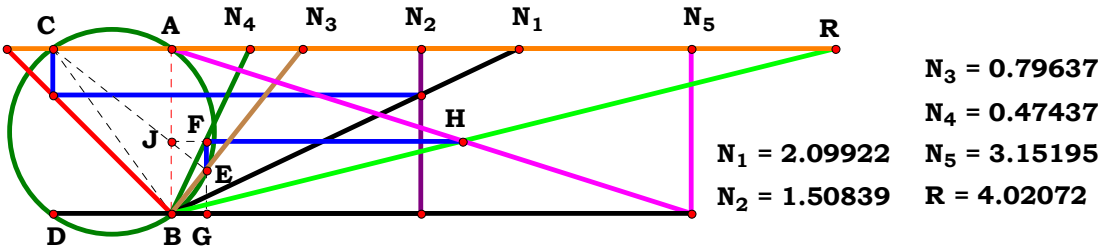
$$\text{Num} := \frac{D \cdot N_u \cdot (B \cdot C - A \cdot N_u)}{\sqrt{[D \cdot N_u \cdot (B \cdot C - A \cdot N_u)]^2}}$$

$$\text{Den} := \frac{E \cdot [B \cdot C \cdot (C - D) + N_u \cdot (A \cdot D + B \cdot N_u)] + D \cdot (F - G) \cdot (B \cdot C - A \cdot N_u)}{\sqrt{[E \cdot [B \cdot C \cdot (C - D) + N_u \cdot (A \cdot D + B \cdot N_u)] + D \cdot (F - G) \cdot (B \cdot C - A \cdot N_u)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{D \cdot N_u \cdot \sqrt{[E \cdot [N_u \cdot (A \cdot D + B \cdot N_u) + B \cdot C \cdot (C - D)] + D \cdot (B \cdot C - A \cdot N_u) \cdot (F - G)]^2} \cdot (B \cdot C - A \cdot N_u)}{[E \cdot [N_u \cdot (A \cdot D + B \cdot N_u) + B \cdot C \cdot (C - D)] + D \cdot (B \cdot C - A \cdot N_u) \cdot (F - G)] \cdot \sqrt{D^2 \cdot N_u^2 \cdot (B \cdot C - A \cdot N_u)^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 2.09922
N₂ := 1.50839
N₃ := .79637
N₄ := .47437
N₅ := 3.15195

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot \left[B \cdot C \cdot (C - D) + B \cdot N_u^2 + A \cdot D \cdot N_u \right]}{D \cdot E \cdot (B \cdot C - A \cdot N_u)} = 4.02067$$

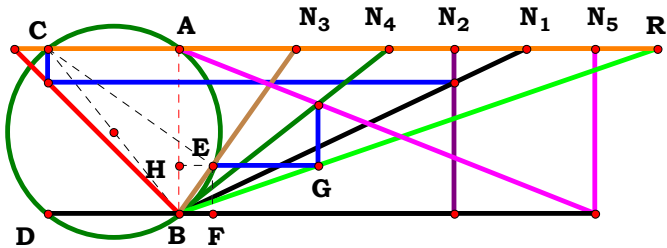
$$Num := \frac{N_u \cdot \left[B \cdot C \cdot (C - D) + B \cdot N_u^2 + A \cdot D \cdot N_u \right]}{\sqrt{\left[N_u \cdot \left[B \cdot C \cdot (C - D) + B \cdot N_u^2 + A \cdot D \cdot N_u \right] \right]^2}}$$

$$Den := \frac{D \cdot E \cdot (B \cdot C - A \cdot N_u)}{\sqrt{\left[D \cdot E \cdot (B \cdot C - A \cdot N_u) \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1
Den = 1
L = 1

$$L - \frac{N_u \cdot \left[B \cdot N_u^2 + A \cdot D \cdot N_u + B \cdot C \cdot (C - D) \right] \cdot \sqrt{D^2 \cdot E^2 \cdot (B \cdot C - A \cdot N_u)^2}}{D \cdot E \cdot \sqrt{N_u^2 \cdot \left[B \cdot N_u^2 + A \cdot D \cdot N_u + B \cdot C \cdot (C - D) \right]^2} \cdot (B \cdot C - A \cdot N_u)} = 0$$



Unit. AB := 1 Given. $N_1 := 2.09922$ $N_2 := 1.66336$ $N_3 := .70920$
 $N_4 := 1.26861$ $N_5 := 2.52237$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

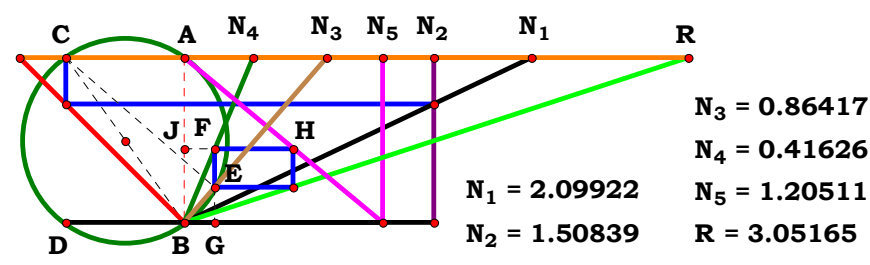
$$\frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{C} \cdot (\mathbf{D} + \mathbf{E}) \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})} = 2.896074$$

$$\text{Num} := \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\text{Den} := \frac{\mathbf{C} \cdot (\mathbf{D} + \mathbf{E}) \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{[\mathbf{C} \cdot (\mathbf{D} + \mathbf{E}) \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})]^2}}$$

$$\mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

$$\mathbf{L} - \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{D} + \mathbf{E})^2 \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})^2}}{\mathbf{C} \cdot (\mathbf{D} + \mathbf{E}) \cdot (\mathbf{B} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.50839$ $N_3 := .86417$

$N_4 := .41626$ $N_5 := 1.20511$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot \left(B \cdot C^2 - B \cdot D \cdot C + B \cdot N_u^2 + A \cdot D \cdot N_u \right)}{C \cdot E \cdot \left(B \cdot C - A \cdot N_u \right)} = 3.051666$$

$$Num := \frac{N_u \cdot \left(B \cdot C^2 - B \cdot D \cdot C + B \cdot N_u^2 + A \cdot D \cdot N_u \right)}{\sqrt{\left[N_u \cdot \left(B \cdot C^2 - B \cdot D \cdot C + B \cdot N_u^2 + A \cdot D \cdot N_u \right) \right]^2}}$$

$$Den := \frac{C \cdot E \cdot \left(B \cdot C - A \cdot N_u \right)}{\sqrt{\left[C \cdot E \cdot \left(B \cdot C - A \cdot N_u \right) \right]^2}}$$

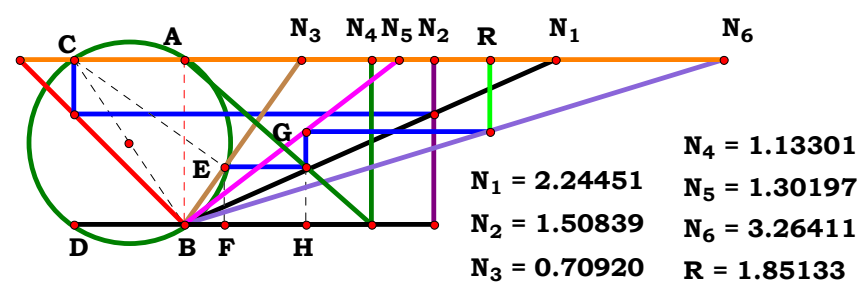
$$L := \frac{Num}{Den}$$

$Num = 1$

$Den = 1$

$L = 1$

$$L - \frac{N_u \cdot \sqrt{C^2 \cdot E^2 \cdot \left(B \cdot C - A \cdot N_u \right)^2} \cdot \left(B \cdot C^2 - B \cdot D \cdot C + B \cdot N_u^2 + A \cdot D \cdot N_u \right)}{C \cdot E \cdot \left(B \cdot C - A \cdot N_u \right) \cdot \sqrt{N_u^2 \cdot \left(B \cdot C^2 - B \cdot D \cdot C + B \cdot N_u^2 + A \cdot D \cdot N_u \right)^2}} = 0$$



Unit.

AB := 1

Given.

$N_1 := 2.24451$
 $N_2 := 1.50839$
 $N_3 := .70920$

$N_4 := 1.13301$
 $N_5 := 1.30197$
 $N_6 := 3.26411$

$N_u := 3$

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

E := $\frac{N_u}{N_5}$

F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{E \cdot N_u^2 \cdot (A \cdot C + B \cdot N_u)}{F \cdot [B \cdot D \cdot (C^2 + N_u^2)]} = 1.851336$$

$$Num := \frac{E \cdot N_u^2 \cdot (A \cdot C + B \cdot N_u)}{\sqrt{[E \cdot N_u^2 \cdot (A \cdot C + B \cdot N_u)]^2}}$$

$$Den := \frac{F \cdot [B \cdot D \cdot (C^2 + N_u^2)]}{\sqrt{[F \cdot [B \cdot D \cdot (C^2 + N_u^2)]]^2}}$$

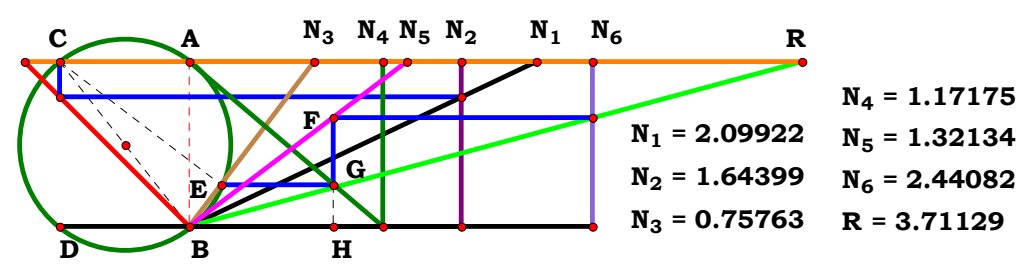
$$L := \frac{Num}{Den}$$

Num = 1

Den = 1

L = 1

$$L - \frac{E \cdot N_u^2 \cdot (A \cdot C + B \cdot N_u) \cdot \sqrt{B^2 \cdot D^2 \cdot F^2 \cdot (C^2 + N_u^2)^2}}{B \cdot D \cdot F \cdot (C^2 + N_u^2) \cdot \sqrt{E^2 \cdot N_u^4 \cdot (A \cdot C + B \cdot N_u)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.64399$ $N_3 := .75763$

$N_4 := 1.17175$ $N_5 := 1.32134$ $N_6 := 2.44082$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{B \cdot D \cdot (C^2 + N_u^2)}{E \cdot F \cdot (A \cdot C + B \cdot N_u)} = 3.711292$$

$$Num := \frac{B \cdot D \cdot (C^2 + N_u^2)}{\sqrt{[B \cdot D \cdot (C^2 + N_u^2)]^2}}$$

$$Den := \frac{E \cdot F \cdot (A \cdot C + B \cdot N_u)}{\sqrt{[E \cdot F \cdot (A \cdot C + B \cdot N_u)]^2}}$$

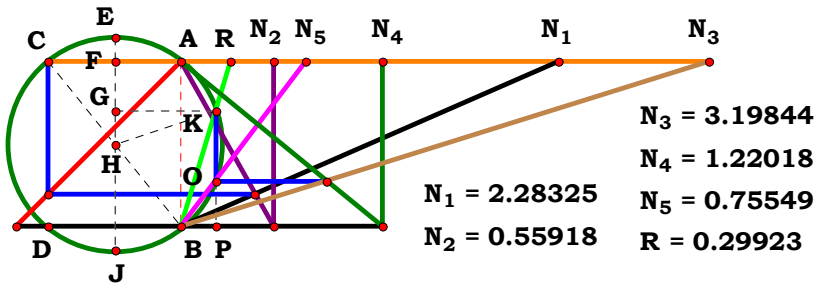
$$L := \frac{Num}{Den}$$

$Num = 1$

$Den = 1$

$L = 1$

$$L - \frac{B \cdot D \cdot (C^2 + N_u^2) \cdot \sqrt{E^2 \cdot F^2 \cdot (A \cdot C + B \cdot N_u)^2}}{E \cdot F \cdot (A \cdot C + B \cdot N_u) \cdot \sqrt{B^2 \cdot D^2 \cdot (C^2 + N_u^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.28325$ $N_2 := .55918$ $N_3 := 3.19844$

$N_4 := 1.22018$ $N_5 := .75549$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

Descriptions.

$$\frac{2 \cdot C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (C + D)^2 \cdot (A + B) - \left[4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] \right] + \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A \cdot E} \cdot (C + D)} = 0.299227$$

$$Num := \frac{2 \cdot C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A}}{\sqrt{\left[2 \cdot C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A} \right]^2}}$$

$$Den := \frac{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (C + D)^2 \cdot (A + B) - \left[4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] \right] + \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A \cdot E} \cdot (C + D)}{\sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (C + D)^2 \cdot (A + B) - \left[4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] \right] + \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A \cdot E} \cdot (C + D) \right]^2}}$$

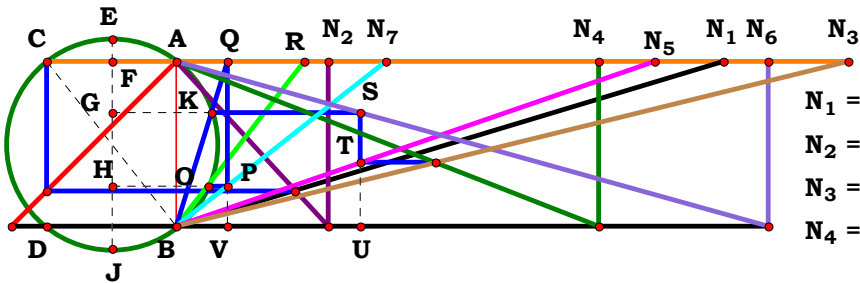
$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\sqrt{A} \cdot \sqrt{B} \cdot C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{A} \cdot \sqrt{B} \cdot E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right]^2}}{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{A} \cdot \sqrt{B} \cdot E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right] \cdot \sqrt{A \cdot B \cdot C^2 \cdot N_u^3 \cdot (A + B)}} = 0$$



Unit.
AB := 1
Given.
N₁ := 3.330995
N₂ := .91756
N₃ := 4.07016
N₄ := 2.55682
N₅ := 2.89605
N₆ := 3.58480
N₇ := 1.26704



N₁ = 3.30995
N₂ = 0.91756
N₃ = 4.07016
N₄ = 2.55682
N₅ = 2.89605
N₆ = 3.58480
N₇ = 1.26704
R = 0.77383

Descriptions.

$AC := \frac{N_1}{N_1 + N_2}$ $EJ := \sqrt{AB^2 + AC^2}$

$AF := \frac{AC}{2}$ $EF := \frac{EJ - AB}{2}$

$TU := \frac{N_4}{N_3 + N_4}$ $BU := N_5 \cdot TU$
 $SU := \frac{N_6 - BU}{N_6}$

$GJ := SU + EF$

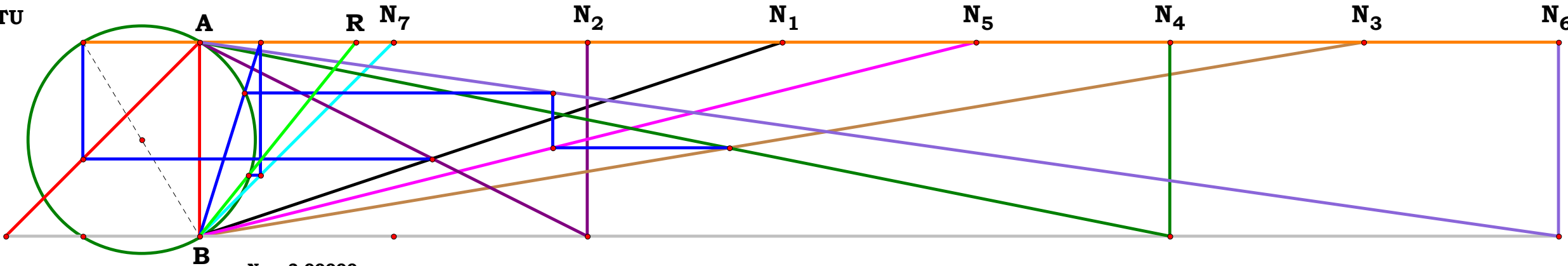
$GK := \sqrt{GJ \cdot (EJ - GJ)}$

$AQ := \frac{GK - AF}{SU}$

$PV := \frac{AQ}{N_7}$ $HJ := PV + EF$

$HO := \sqrt{HJ \cdot (EJ - HJ)}$ $R := \frac{HO - AF}{PV}$

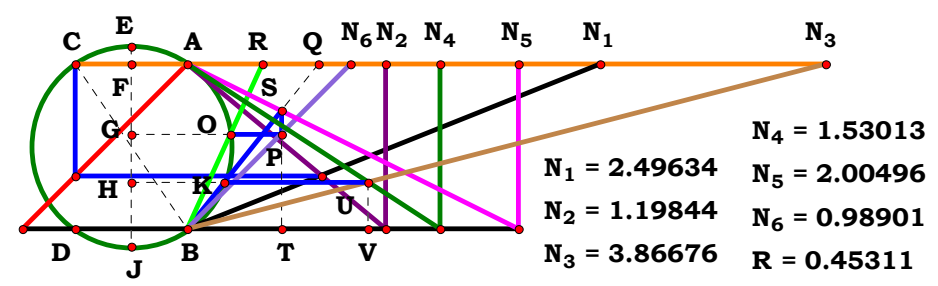
R = 0.77342



N₁ = 3.00000	$\frac{N_1}{N_1 + N_2} = 0.60000$	N₅ · TU = 1.81818	PV + EF = 0.39555	AC = 0.60000	SU = 0.74026
N₂ = 2.00000	$\frac{AC}{2} = 0.30000$	$\frac{N_6 - BU}{N_6} = 0.74026$	$\sqrt{HJ \cdot (EJ - HJ)} = 0.55211$	EJ = 1.16619	GJ = 0.82335
N₃ = 6.00000	$\frac{EJ - 1}{2} = 0.08310$	SU + EF = 0.82335	$R - \frac{HO - AF}{PV} = 0.00000$	AF = 0.30000	GK = 0.53130
N₄ = 5.00000	$\frac{N_4}{N_3 + N_4} = 0.45455$	$\sqrt{GJ \cdot (EJ - GJ)} = 0.53130$		EF = 0.08310	AQ = 0.31245
N₅ = 4.00000		$\frac{GK - AF}{SU} = 0.31245$		TU = 0.45455	PV = 0.31245
N₆ = 7.00000		$\frac{AQ}{N_7} = 0.31245$		BU = 1.81818	HJ = 0.39555
N₇ = 1.00000					HO = 0.55211
R = 0.80688					



Unit.
AB := 1
 Given.
N₁ := 2.49634
N₂ := 1.19844
N₃ := 3.86676
N₄ := 1.53013
N₅ := 2.00496
N₆ := .98901



Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

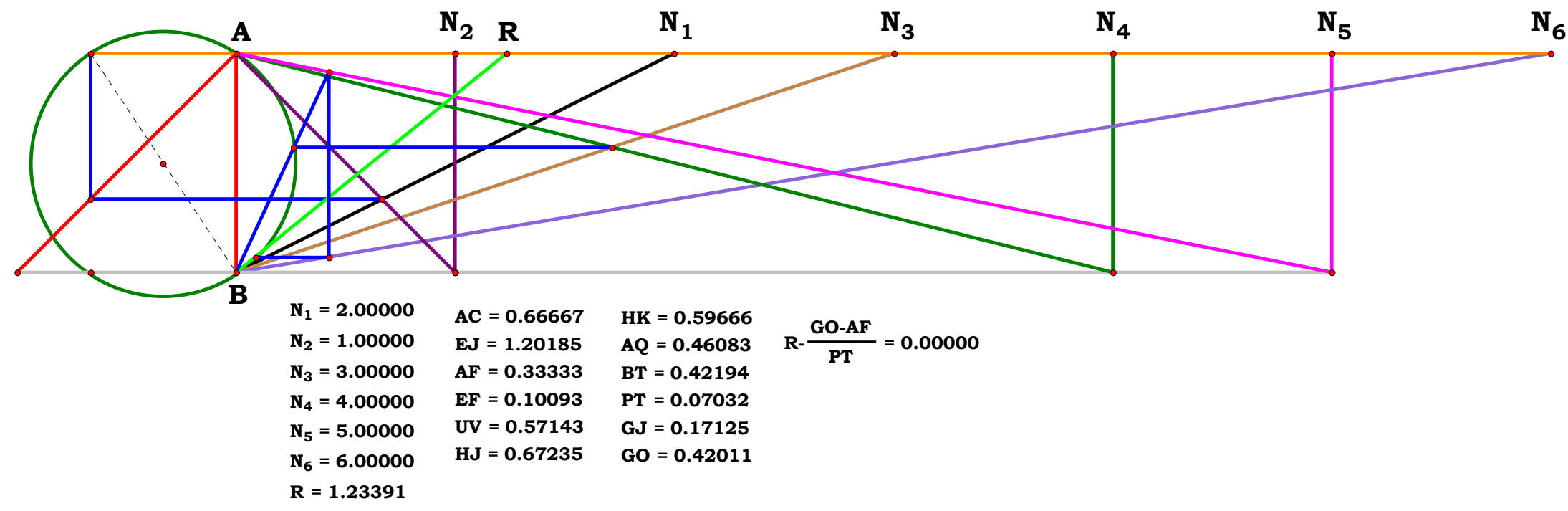
$$UV := \frac{N_4}{N_3 + N_4} \quad HJ := UV + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad AQ := \frac{HK - AF}{UV}$$

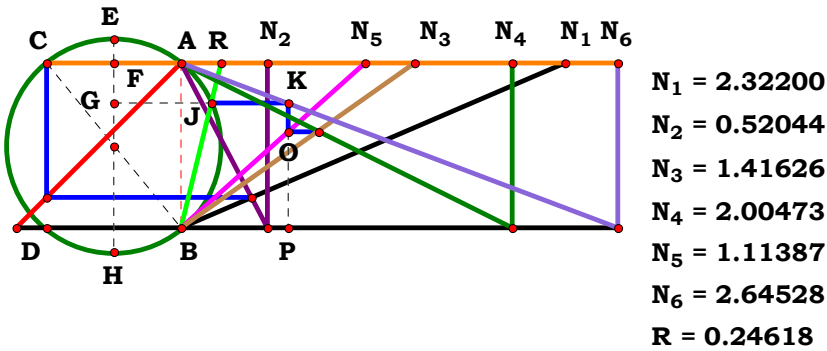
$$BT := \frac{AQ \cdot N_5}{AQ + N_5} \quad PT := \frac{BT}{N_6}$$

$$GJ := PT + EF \quad GO := \sqrt{GJ \cdot (EJ - GJ)}$$

$$R := \frac{GO - AF}{PT} \quad R = 0.453111$$



$$R - \frac{GO - AF}{PT} = 0.00000$$



Unit. **AB** := 1 Given. **N₁** := 2.32200 **N₂** := .52044 **N₃** := 1.41626

N₄ := 2.00473 **N₅** := 1.11387 **N₆** := 2.64528

$$\mathbf{N_u} := 3 \qquad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \qquad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \qquad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \qquad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \qquad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \qquad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}}$$

Descriptions.

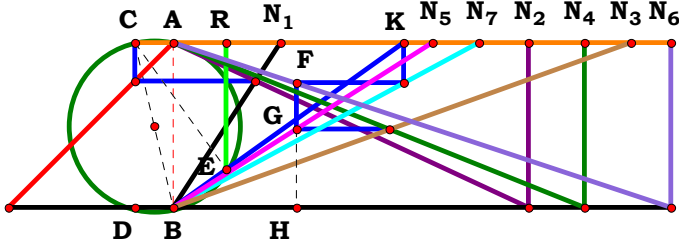
$$\frac{\sqrt{4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}] + \mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 - \mathbf{B} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})}}{2 \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})} = \mathbf{0.24618}$$

$$\mathbf{Num} := \frac{\sqrt{4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}] + \mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 - \mathbf{B} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})}}{\sqrt{\left[\sqrt{4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}] + \mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 - \mathbf{B} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})}\right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})}{\sqrt{\left[2 \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})\right]^2}} \qquad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{Num} = 1 \qquad \mathbf{Den} = 1 \qquad \mathbf{L} = 1$$

$$\mathbf{L} - \frac{\sqrt{(2 \cdot \mathbf{A} + 2 \cdot \mathbf{B})^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})^2 \cdot \left[\sqrt{4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}] + \mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 - \mathbf{B} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})}\right]}}{2 \cdot (\mathbf{A} + \mathbf{B}) \cdot \sqrt{\left[\sqrt{\mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})] \cdot (\mathbf{A} + \mathbf{B})^2 - \mathbf{B} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})}\right]^2} \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})} = \mathbf{0}$$



$N_1 = 0.64635$	$N_4 = 2.48902$	$N_7 = 1.84818$
$N_2 = 2.14765$	$N_5 = 1.56910$	$R = 0.32109$
$N_3 = 2.77227$	$N_6 = 3.01334$	

Unit.
 $AB := 1$
Given.
 $N_1 := .64635$
 $N_2 := 2.14765$
 $N_3 := 2.77227$
 $N_4 := 2.48902$

$N_5 := 1.56910$
 $N_6 := 3.01334$
 $N_7 := 1.84818$

$N_u := 3$
 $A := \frac{N_u}{N_1}$
 $B := \frac{N_u}{N_2}$
 $C := \frac{N_u}{N_3}$
 $D := \frac{N_u}{N_4}$
 $E := \frac{N_u}{N_5}$
 $F := \frac{N_u}{N_6}$
 $G := \frac{N_u}{N_7}$

Descriptions.

$$\frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - B \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right]}{(A + B) \cdot \left[G^2 \cdot E^2 \cdot (C + D)^2 + N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 \right]} = 0.321095$$

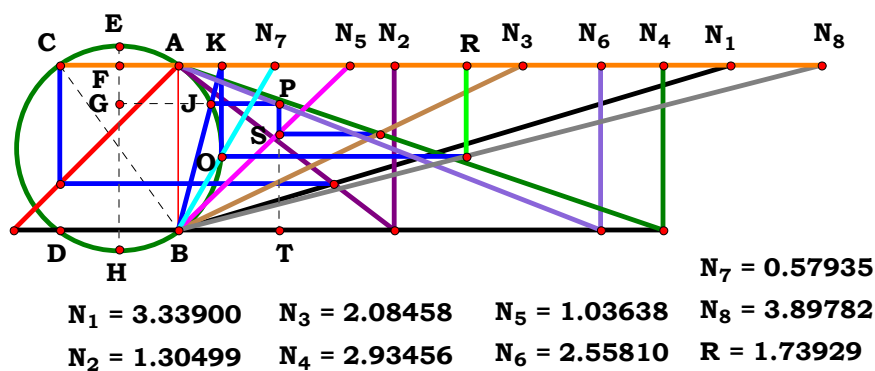
$$Num := \frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - B \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right]}{\sqrt{\left[N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - B \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right] \right]^2}}$$

$$Den := \frac{(A + B) \cdot \left[G^2 \cdot E^2 \cdot (C + D)^2 + N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 \right]}{\sqrt{\left[(A + B) \cdot \left[G^2 \cdot E^2 \cdot (C + D)^2 + N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 \right] \right]^2}}$$

$L := \frac{Num}{Den}$

$Num = 1$
 $Den = 1$
 $L = 1$

$$L - \frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - B \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right] \cdot \sqrt{\left[N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2 \right]^2 \cdot (A + B)^2}}{\left[N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2 \right] \cdot (A + B) \cdot \sqrt{\left[N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - B \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right] \right]^2}} = 0$$



$$\begin{array}{l} \text{Unit.} \quad \text{AB} := 1 \quad \text{Given.} \quad N_1 := 3.33900 \quad N_2 := 1.30499 \quad N_3 := 2.08458 \quad N_4 := 2.93456 \\ \quad \quad \quad N_5 := 1.03638 \quad N_6 := 2.55810 \quad N_7 := .57935 \quad N_8 := 3.89782 \\ N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7} \quad H := \frac{N_u}{N_8} \end{array}$$

Descriptions.

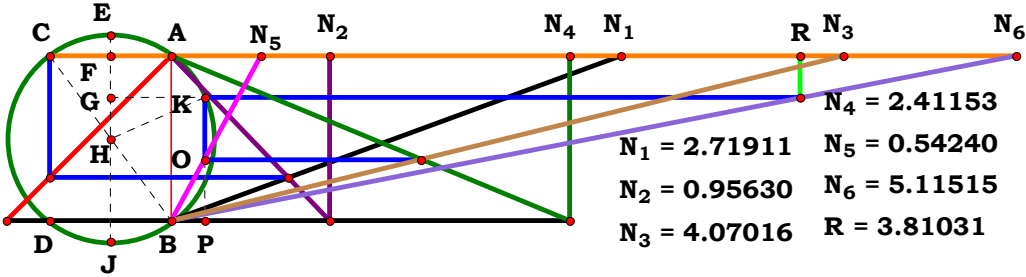
$$\frac{\mathbf{G} \cdot \left[\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} - \sqrt{\mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E} \right]}{2 \cdot \mathbf{H} \cdot (\mathbf{A} + \mathbf{B}) \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}]} = -1.739282$$

$$\text{Num} := \frac{\mathbf{G} \cdot [\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} - \sqrt{\mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}]}{\sqrt{[\mathbf{G} \cdot [\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} - \sqrt{\mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{H} \cdot (\mathbf{A} + \mathbf{B}) \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}]}{\sqrt{[2 \cdot \mathbf{H} \cdot (\mathbf{A} + \mathbf{B}) \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}]]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = -1 Den = 1 L = -1

$$\mathbf{L} - \frac{\mathbf{G} \cdot \sqrt{\mathbf{H}^2 \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})]^2 \cdot (\mathbf{A} + \mathbf{B})^2} \cdot [\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} - \sqrt{\mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}]}{\mathbf{H} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})] \cdot (\mathbf{A} + \mathbf{B}) \cdot \sqrt{\mathbf{G}^2 \cdot [\mathbf{B} \cdot \mathbf{C} \cdot \mathbf{E} - \sqrt{\mathbf{B}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})} + \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{E}]^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 2.71911$

$N_2 := .95630$

$N_3 := 4.07016$

$N_4 := 2.41153$

$N_5 := .54240$

$N_6 := 5.11515$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{N_u \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{\left[N_u \cdot (A + B) \right]} \cdot \sqrt{B} \cdot \sqrt{A \cdot E} \cdot (C + D) \right]}{2 \cdot F \cdot (C + D) \cdot \sqrt{\left[N_u \cdot (A + B) \right]} \cdot \sqrt{B} \cdot \sqrt{A \cdot E}} = 3.81033$$

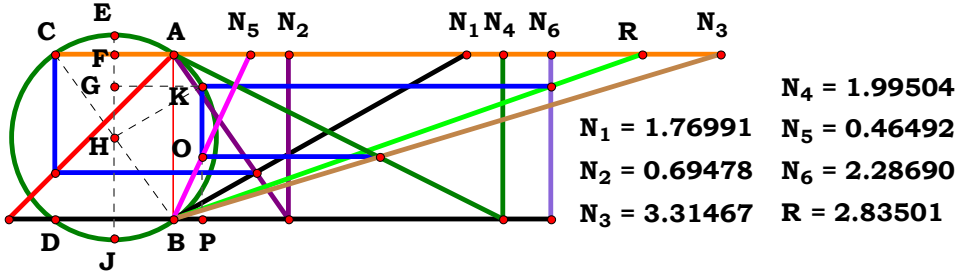
$$Num := \frac{N_u \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{\left[N_u \cdot (A + B) \right]} \cdot \sqrt{B} \cdot \sqrt{A \cdot E} \cdot (C + D) \right]}{\sqrt{\left[N_u \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{\left[N_u \cdot (A + B) \right]} \cdot \sqrt{B} \cdot \sqrt{A \cdot E} \cdot (C + D) \right] \right]^2}}$$

$$Den := \frac{2 \cdot F \cdot (C + D) \cdot \sqrt{\left[N_u \cdot (A + B) \right]} \cdot \sqrt{B} \cdot \sqrt{A \cdot E}}{\sqrt{\left[2 \cdot F \cdot (C + D) \cdot \sqrt{\left[N_u \cdot (A + B) \right]} \cdot \sqrt{B} \cdot \sqrt{A \cdot E} \right]^2}}$$

$L := \frac{Num}{Den}$

$Num = 1$
 $Den = 1$
 $L = 1$

$$L - \frac{N_u \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{A} \cdot \sqrt{B} \cdot E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right] \cdot \sqrt{A \cdot B \cdot E^2 \cdot F^2 \cdot N_u \cdot (A + B) \cdot (C + D)^2}}{\sqrt{A} \cdot \sqrt{B} \cdot E \cdot F \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u^2 \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[B \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{A} \cdot \sqrt{B} \cdot E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right]^2} \cdot (C + D)} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.76991
N₂ := .69478
N₃ := 3.31467
N₄ := 1.99504
N₅ := .46492
N₆ := 2.28690

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \cdot \sqrt{B} \cdot \sqrt{A} \cdot E}{F \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{-N_u \cdot \left[4 \cdot C^2 \cdot N_u^2 \cdot (A + B) - E^2 \cdot (A + B) \cdot (C + D)^2 + 4 \cdot B \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A} \cdot E \cdot (C + D) \right]} = 2.835018$$

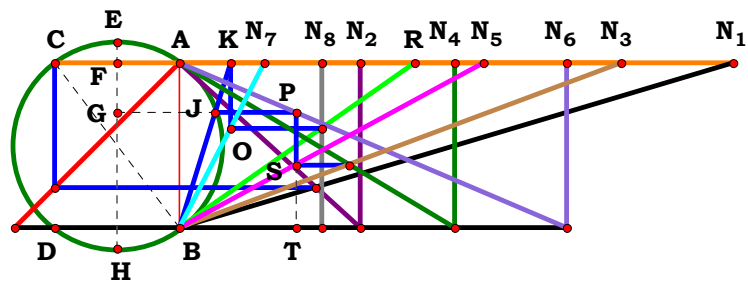
$$Num := \frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \cdot \sqrt{B} \cdot \sqrt{A} \cdot E}{\sqrt{\left[2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \cdot \sqrt{B} \cdot \sqrt{A} \cdot E \right]^2}}$$

$$Den := \frac{F \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{-N_u \cdot \left[4 \cdot C^2 \cdot N_u^2 \cdot (A + B) - E^2 \cdot (A + B) \cdot (C + D)^2 + 4 \cdot B \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A} \cdot E \cdot (C + D) \right]}{\sqrt{\left[F \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{-N_u \cdot \left[4 \cdot C^2 \cdot N_u^2 \cdot (A + B) - E^2 \cdot (A + B) \cdot (C + D)^2 + 4 \cdot B \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{N_u \cdot (A + B)} \cdot \sqrt{B} \cdot \sqrt{A} \cdot E \cdot (C + D) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{A} \cdot \sqrt{B} \cdot E \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{F^2 \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{-N_u \cdot \left[4 \cdot C^2 \cdot N_u^2 \cdot (A + B) - E^2 \cdot (A + B) \cdot (C + D)^2 + 4 \cdot B \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{A} \cdot \sqrt{B} \cdot E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right]^2} \cdot (C + D)}{F \cdot \left[\sqrt{A \cdot B} \cdot \sqrt{-N_u \cdot \left[4 \cdot C^2 \cdot N_u^2 \cdot (A + B) - E^2 \cdot (A + B) \cdot (C + D)^2 + 4 \cdot B \cdot C \cdot E \cdot N_u \cdot (C + D) \right]} + \sqrt{A} \cdot \sqrt{B} \cdot E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right] \cdot \sqrt{A \cdot B \cdot E^2 \cdot N_u^3 \cdot (A + B) \cdot (C + D)^2}} = 0$$



N₁ = 3.34869 N₄ = 1.66573 N₇ = 0.51155
N₂ = 1.09190 N₅ = 1.84030 N₈ = 0.86336
N₃ = 2.67541 N₆ = 2.34502 R = 1.42396

Unit. AB := 1 Given. N₁ := 3.34869 N₂ := 1.09190 N₃ := 2.67541 N₄ := 1.66573
N₅ := 1.84030 N₆ := 2.34502 N₇ := .51155 N₈ := .86336

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$ F := $\frac{N_u}{N_6}$ G := $\frac{N_u}{N_7}$ H := $\frac{N_u}{N_8}$

Descriptions.

$$\frac{2 \cdot N_u^2 \cdot (A + B) \cdot [C \cdot (F - E) - D \cdot E]}{G \cdot H \cdot \left[B \cdot E \cdot (C + D) - \sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot [C \cdot (E - F) + D \cdot E]} \right]} = 1.423963$$

$$\text{Den} := \frac{G \cdot H \cdot \left[B \cdot E \cdot (C + D) - \sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot [C \cdot (E - F) + D \cdot E]} \right]}{\sqrt{\left[G \cdot H \cdot \left[B \cdot E \cdot (C + D) - \sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot [C \cdot (E - F) + D \cdot E]} \right] \right]^2}}$$

Num = -1 Den = -1 L = 1

$$L - \frac{N_u^2 \cdot [D \cdot E + C \cdot (E - F)] \cdot (A + B) \cdot \sqrt{G^2 \cdot H^2 \cdot \left[\sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot [D \cdot E + C \cdot (E - F)] \cdot (A + B)^2} - B \cdot E \cdot (C + D) \right]^2}}{G \cdot H \cdot \left[\sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot [D \cdot E + C \cdot (E - F)] \cdot (A + B)^2} - B \cdot E \cdot (C + D) \right] \cdot \sqrt{N_u^4 \cdot [D \cdot E + C \cdot (E - F)]^2 \cdot (A + B)^2}} = 0$$

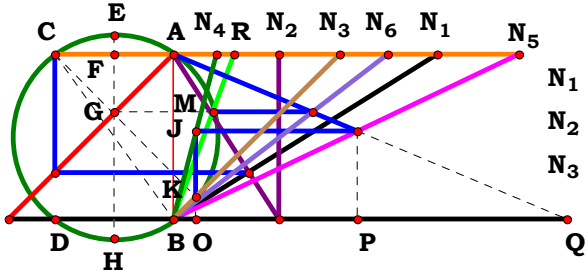
$$\text{Num} := \frac{2 \cdot N_u^2 \cdot (A + B) \cdot [C \cdot (F - E) - D \cdot E]}{\sqrt{\left[2 \cdot N_u^2 \cdot (A + B) \cdot [C \cdot (F - E) - D \cdot E] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$



Unit.
 AB := 1
 Given.
 N₁ := 1.59556
 N₂ := .63667

N₃ := 1.00946
 N₄ := .26129
 N₅ := 2.09213
 N₆ := 1.29895



N₁ = 1.59556 N₄ = 0.26129
 N₂ = 0.63667 N₅ = 2.09213
 N₃ = 1.00946 N₆ = 1.29895
 R = 0.36947

Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

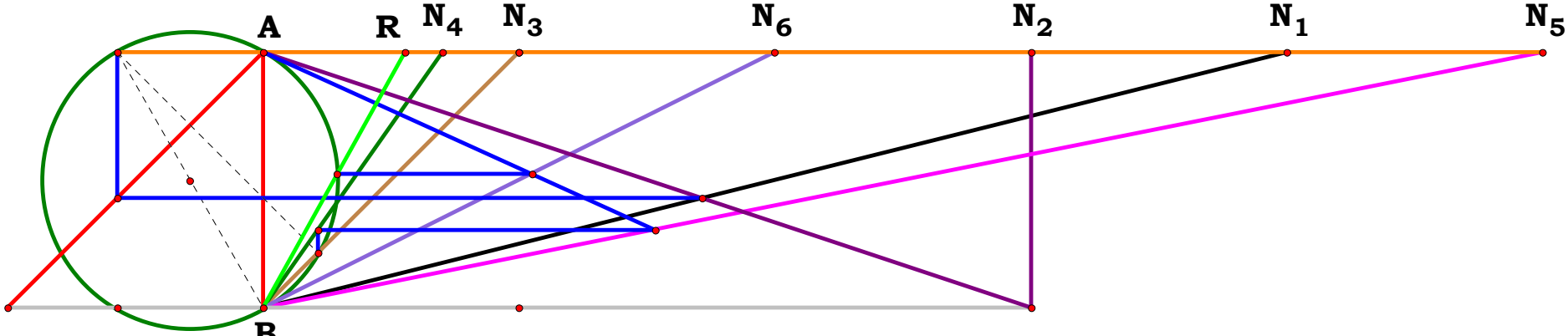
$$KN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$$

$$JO := \frac{BO}{N_4} \quad BP := N_5 \cdot JO$$

$$BQ := \frac{BP \cdot AB}{AB - JO} \quad FG := \frac{N_6}{BQ + N_6}$$

$$EG := FG + EF \quad GM := \sqrt{EG \cdot (EH - EG)}$$

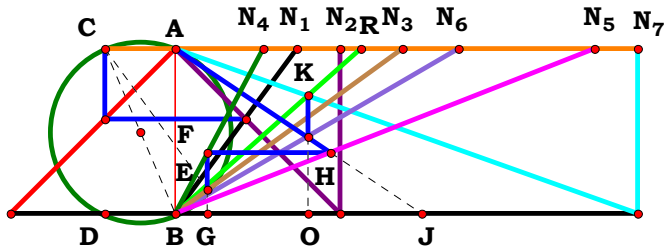
$$R := \frac{GM - AF}{AB - FG} \quad R = 0.369478$$



N₁ = 4.00000 N₅ = 5.00000 AB = 1.00000 EF = 0.07588 BO = 0.21429 FG = 0.47552
 N₂ = 3.00000 N₆ = 2.00000 AC = 0.57143 BN₃ = 1.41421 JO = 0.30612 EG = 0.55140
 N₃ = 1.00000 R = 0.55225 EH = 1.15175 CN₃ = 1.57143 BP = 1.53061 GM = 0.57536
 N₄ = 0.70000 AF = 0.28571 KN₃ = 1.11117 BQ = 2.20588 R - $\frac{GM - AF}{AB - FG}$ = 0.00000

Definitions.

$$R - \frac{\left[\left(N_3 \cdot N_5 - N_3 \cdot N_6 + N_4 \cdot N_6 + N_3^2 \cdot N_4 \cdot N_6 \right) \cdot (N_1 + N_2) \cdot N_1 - (N_5 - N_6) \cdot N_1^2 \cdot N_3^2 \dots \right.}{\left. + - \sqrt{N_1^2 \cdot N_6^2 \cdot \left[N_3^2 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4) - (N_3 - N_4) \cdot (N_1 + N_2) \right]^2 + N_1^2 \cdot N_3^2 \cdot N_5^2 \cdot (N_1 \cdot N_3 - N_2 - N_1)^2 \dots} \right.}{\left. + - 2 \cdot N_3 \cdot N_5 \cdot N_6 \cdot \left(3 \cdot N_1^2 + 4 \cdot N_1 \cdot N_2 + 2 \cdot N_2^2 \right) \cdot (N_1 \cdot N_3 - N_2 - N_1) \cdot \left[N_3^2 \cdot (N_1 + N_1 \cdot N_4 + N_2 \cdot N_4) - (N_3 - N_4) \cdot (N_1 + N_2) \right] \right.} \cdot (N_1 + N_2)^2}{2 \cdot N_3 \cdot N_5 \cdot (N_1 \cdot N_3 - N_2 - N_1) \cdot (N_1 + N_2)^3} = 0$$



N₁ = 0.73353 N₄ = 0.53249 N₇ = 2.79739
N₂ = 0.99504 N₅ = 2.53768 R = 1.11879
N₃ = 1.37752 N₆ = 1.71544

Unit. AB := 1 Given. N₁ := .73353 N₂ := .99504 N₃ := 1.37752 N₄ := .53249
N₅ := 2.53768 N₆ := 1.71544 N₇ := 2.79739

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$ F := $\frac{N_u}{N_6}$ G := $\frac{N_u}{N_7}$

Descriptions.

$$\frac{D \cdot N_u \cdot [C \cdot (A + B) - B \cdot N_u]}{N_u^2 \cdot E \cdot (A + B) + N_u \cdot B \cdot D \cdot (E - F + G) + C \cdot [E \cdot (C - D) + D \cdot (F - G)] \cdot (A + B)} = 1.118775$$

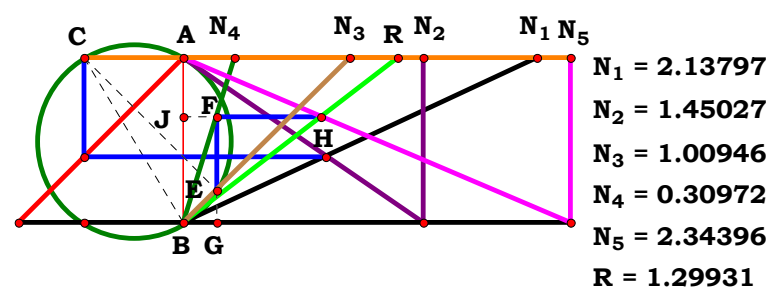
$$\text{Den} := \frac{N_u^2 \cdot E \cdot (A + B) + N_u \cdot B \cdot D \cdot (E - F + G) + C \cdot [E \cdot (C - D) + D \cdot (F - G)] \cdot (A + B)}{\sqrt{[N_u^2 \cdot E \cdot (A + B) + N_u \cdot B \cdot D \cdot (E - F + G) + C \cdot [E \cdot (C - D) + D \cdot (F - G)] \cdot (A + B)]^2}}$$

$$\text{Num} := \frac{D \cdot N_u \cdot [C \cdot (A + B) - B \cdot N_u]}{\sqrt{[D \cdot N_u \cdot [C \cdot (A + B) - B \cdot N_u]]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{D \cdot N_u \cdot \sqrt{[E \cdot (A + B) \cdot N_u^2 + B \cdot D \cdot (E - F + G) \cdot N_u + C \cdot [E \cdot (C - D) + D \cdot (F - G)] \cdot (A + B)]^2} \cdot [C \cdot (A + B) - B \cdot N_u]}{\sqrt{D^2 \cdot N_u^2 \cdot [C \cdot (A + B) - B \cdot N_u]^2 \cdot [E \cdot (A + B) \cdot N_u^2 + B \cdot D \cdot (E - F + G) \cdot N_u + C \cdot [E \cdot (C - D) + D \cdot (F - G)] \cdot (A + B)]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.13797$ $N_2 := 1.45027$ $N_3 := 1.00946$
 $N_4 := .30972$ $N_5 := 2.34396$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C-D) \cdot (A+B)}{D \cdot E \cdot [C \cdot (A+B) - B \cdot N_u]} = 1.299387$$

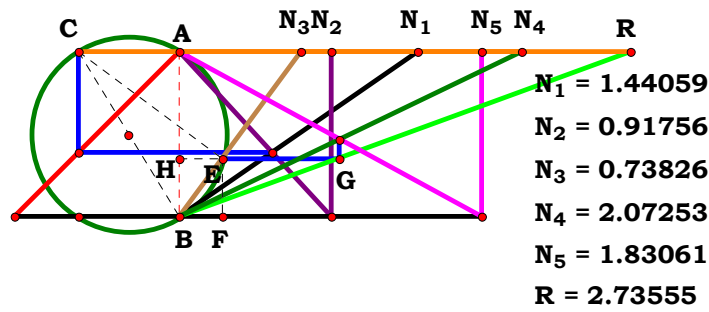
$$\text{Den} := \frac{D \cdot E \cdot [C \cdot (A+B) - B \cdot N_u]}{\sqrt{[D \cdot E \cdot [C \cdot (A+B) - B \cdot N_u]]^2}}$$

$$\text{Num} := \frac{(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C-D) \cdot (A+B)}{\sqrt{[(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C-D) \cdot (A+B)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{[(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + C \cdot (A+B) \cdot (C-D) \cdot N_u] \cdot \sqrt{D^2 \cdot E^2 \cdot [C \cdot (A+B) - B \cdot N_u]^2}}{D \cdot E \cdot [C \cdot (A+B) - B \cdot N_u] \cdot \sqrt{[(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + C \cdot (A+B) \cdot (C-D) \cdot N_u]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.44059$ $N_2 := .91756$ $N_3 := .73826$

$N_4 := 2.07253$ $N_5 := 1.83061$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{C \cdot (D + E) \cdot [C \cdot (A + B) - B \cdot N_u]} = 2.735571$$

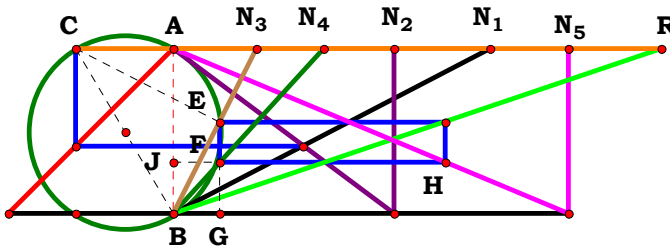
$$Num := \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[N_u \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$

$$Den := \frac{C \cdot (D + E) \cdot [C \cdot (A + B) - B \cdot N_u]}{\sqrt{[C \cdot (D + E) \cdot [C \cdot (A + B) - B \cdot N_u]]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{C^2 \cdot (D + E)^2 \cdot [C \cdot (A + B) - B \cdot N_u]^2}}{C \cdot (D + E) \cdot [C \cdot (A + B) - B \cdot N_u] \cdot \sqrt{N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



N₁ = 1.91519
N₂ = 1.33405
N₃ = 0.50580
N₄ = 0.91023
N₅ = 2.39239
R = 2.95122

Unit. AB := 1 Given. N₁ := 1.91519 N₂ := 1.33405 N₃ := .50580

N₄ := .91023 N₅ := 2.39239

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

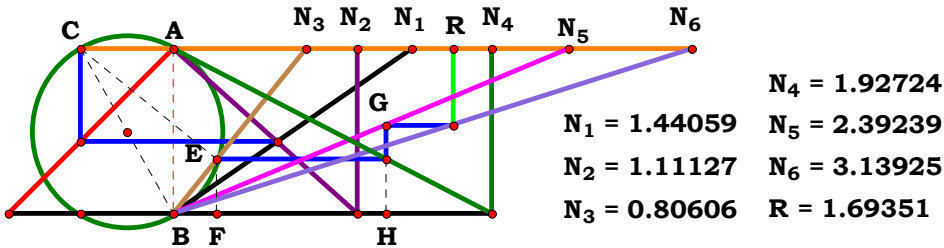
$$\frac{(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C-D) \cdot (A+B)}{C \cdot E \cdot [C \cdot (A+B) - B \cdot N_u]} = 2.951229$$

$$\text{Num} := \frac{(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C-D) \cdot (A+B)}{\sqrt{[(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + N_u \cdot C \cdot (C-D) \cdot (A+B)]^2}}$$

$$\text{Den} := \frac{C \cdot E \cdot [C \cdot (A+B) - B \cdot N_u]}{\sqrt{[C \cdot E \cdot [C \cdot (A+B) - B \cdot N_u]]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{[(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + C \cdot (A+B) \cdot (C-D) \cdot N_u] \cdot \sqrt{C^2 \cdot E^2 \cdot [C \cdot (A+B) - B \cdot N_u]^2}}{C \cdot E \cdot [C \cdot (A+B) - B \cdot N_u] \cdot \sqrt{[(A+B) \cdot N_u^3 + B \cdot D \cdot N_u^2 + C \cdot (A+B) \cdot (C-D) \cdot N_u]^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.44059
N₂ := 1.11127
N₃ := .80606

N₄ := 1.92724
N₅ := 2.39239
N₆ := 3.13925

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{E \cdot N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]}{D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B)} = 1.693517$$

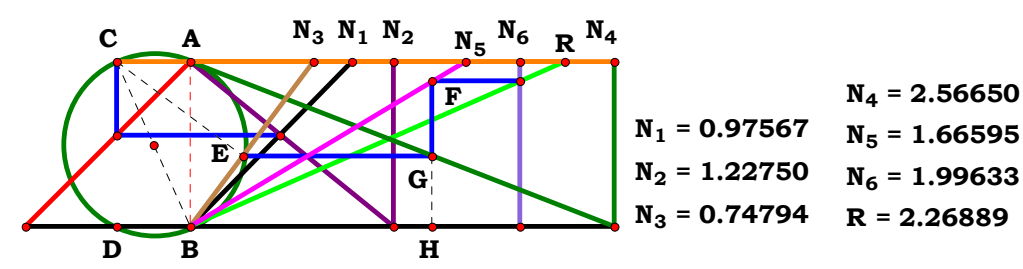
$$Num := \frac{E \cdot N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]}{\sqrt{[E \cdot N_u^2 \cdot [B \cdot C + N_u \cdot (A + B)]]^2}}$$

$$Den := \frac{D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1
Den = 1
L = 1

$$L - \frac{E \cdot N_u^2 \cdot [N_u \cdot (A + B) + B \cdot C] \cdot \sqrt{D^2 \cdot F^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}}{D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{E^2 \cdot N_u^4 \cdot [N_u \cdot (A + B) + B \cdot C]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := .97567$ $N_2 := 1.22750$ $N_3 := .74794$
 $N_4 := 2.56650$ $N_5 := 1.66595$ $N_6 := 1.99633$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{D \cdot (C^2 + N_u^2) \cdot (A + B)}{E \cdot F \cdot [B \cdot C + N_u \cdot (A + B)]} = 2.268889$$

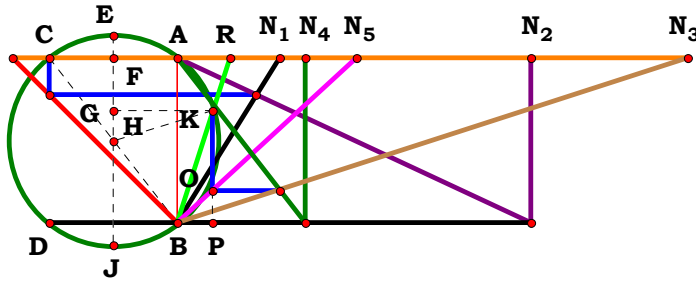
$$Num := \frac{D \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[D \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$

$$Den := \frac{E \cdot F \cdot [B \cdot C + N_u \cdot (A + B)]}{\sqrt{[E \cdot F \cdot [B \cdot C + N_u \cdot (A + B)]]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{D \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{E^2 \cdot F^2 \cdot [N_u \cdot (A + B) + B \cdot C]^2}}{E \cdot F \cdot [N_u \cdot (A + B) + B \cdot C] \cdot \sqrt{D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



N₁ = 0.61730
N₂ = 2.13797
N₃ = 3.09190
N₄ = 0.77463
N₅ = 1.08481
R = 0.31740

Unit. AB := 1 Given. N₁ := .61730 N₂ := 2.13797 N₃ := 3.09190

N₄ := .77463 N₅ := 1.08481

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

$$\frac{2 \cdot C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{N_u \cdot (A + B)} \cdot E \cdot (C + D)} = 0.317401$$

$$\text{Num} := \frac{2 \cdot C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{\left[2 \cdot C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \right]^2}}$$

$$\text{Den} := \frac{\sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{N_u \cdot (A + B)} \cdot E \cdot (C + D)}{\sqrt{\left[\sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + \sqrt{N_u \cdot (A + B)} \cdot E \cdot (C + D) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{C \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{\left[\sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right]^2}}{\left[\sqrt{N_u} \cdot \left[E^2 \cdot (A + B) \cdot (C + D)^2 - 4 \cdot C \cdot N_u \cdot \left[A \cdot E \cdot (C + D) + C \cdot N_u \cdot (A + B) \right] \right] + E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right] \cdot \sqrt{C^2 \cdot N_u^3 \cdot (A + B)}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 1.22750$

$N_2 := 3.13560$

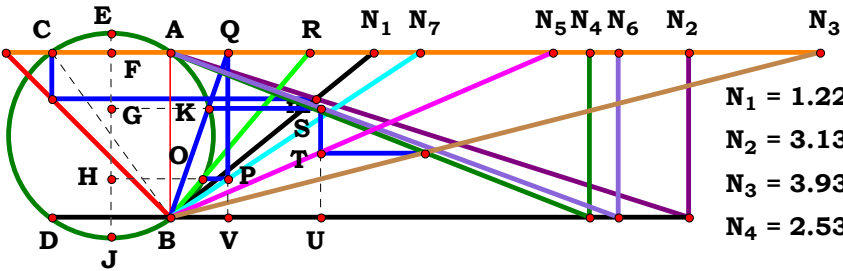
$N_3 := 3.93456$

$N_4 := 2.53745$

$N_5 := 2.31490$

$N_6 := 2.71202$

$N_7 := 1.51098$



$N_1 = 1.22750$ $N_5 = 2.31490$
 $N_2 = 3.13560$ $N_6 = 2.71202$
 $N_3 = 3.93456$ $N_7 = 1.51098$
 $N_4 = 2.53745$ $R = 0.83973$

Descriptions.

$AC := \frac{N_2}{N_1 + N_2}$ $EJ := \sqrt{AB^2 + AC^2}$

$AF := \frac{AC}{2}$ $EF := \frac{EJ - AB}{2}$

$TU := \frac{N_4}{N_3 + N_4}$

$BU := N_5 \cdot TU$

$SU := \frac{N_6 - BU}{N_6}$

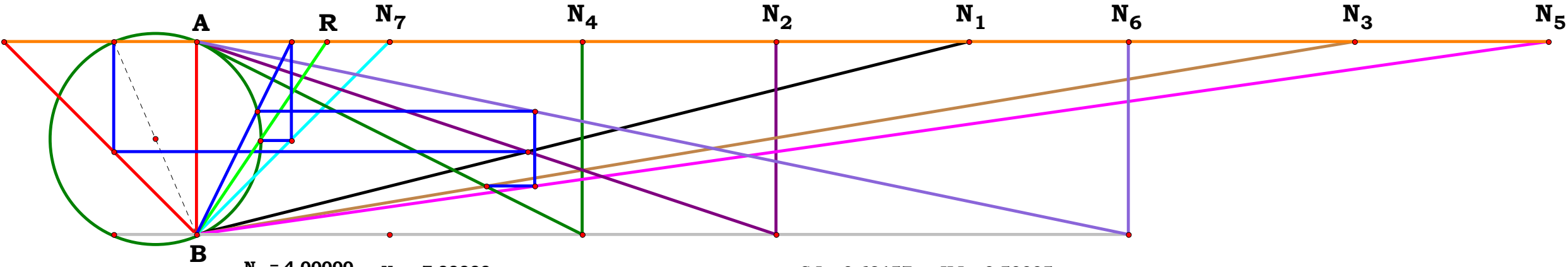
$GJ := SU + EF$

$GK := \sqrt{GJ \cdot (EJ - GJ)}$ $AQ := \frac{GK - AF}{SU}$

$PV := \frac{AQ}{N_7}$ $HJ := PV + EF$

$HO := \sqrt{HJ \cdot (EJ - HJ)}$ $R := \frac{HO - AF}{PV}$

$R = 0.83973$

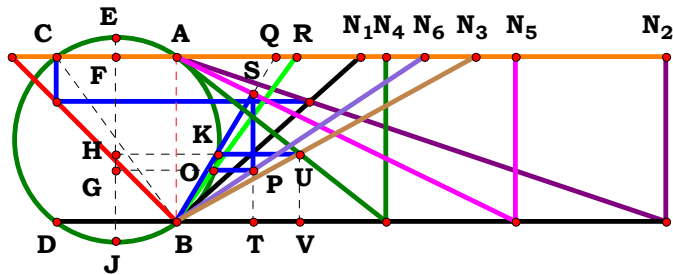


$N_1 = 4.00000$ $N_5 = 7.00000$ $AB = 1.00000$ $EF = 0.04398$ $GJ = 0.68157$ $HJ = 0.53335$
 $N_2 = 3.00000$ $N_6 = 4.82872$ $AC = 0.42857$ $TU = 0.25000$ $GK = 0.52630$ $HO = 0.54388$
 $N_3 = 6.00000$ $N_7 = 1.00000$ $EJ = 1.08797$ $BU = 1.75000$ $AQ = 0.48936$ $R - \frac{HO - AF}{PV} = 0.00000$
 $N_4 = 2.00000$ $R = 0.67351$ $AF = 0.21429$ $SU = 0.63759$ $PV = 0.48936$



Unit.
AB := 1
 Given.
N₁ := 1
N₂ := 4

N₃ := 5
N₄ := 3
N₅ := 6
N₆ := 2



N₁ = 1.11127 **N₅** = 2.05339
N₂ = 2.96126 **N₆** = 1.50130
N₃ = 1.81338 **R** = 0.72418
N₄ = 1.26861

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

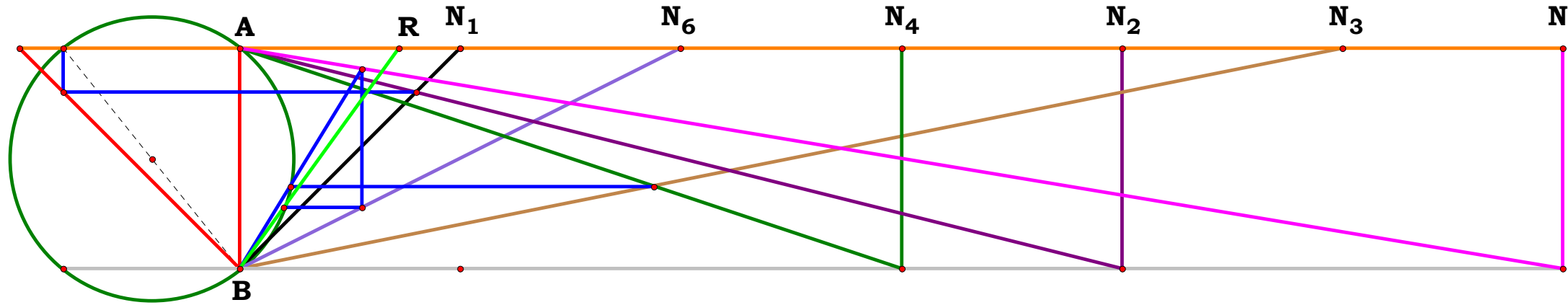
$$UV := \frac{N_4}{N_3 + N_4} \quad HJ := UV + EF$$

$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad AQ := \frac{HK - AF}{UV}$$

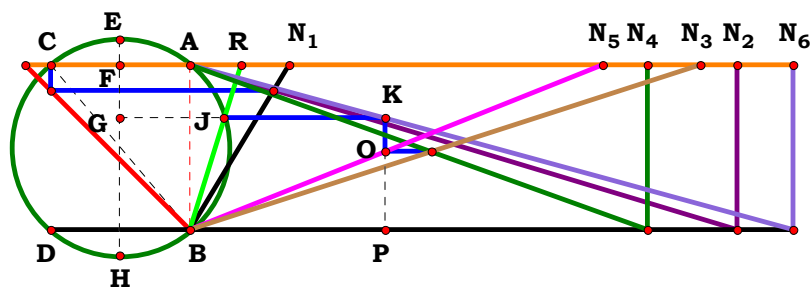
$$BT := \frac{AQ \cdot N_5}{AQ + N_5} \quad PT := \frac{BT}{N_6}$$

$$GJ := PT + EF \quad GO := \sqrt{GJ \cdot (EJ - GJ)}$$

$$R := \frac{GO - AF}{PT} \quad R = 0.724079$$



N₁ = 1.00000	N₄ = 3.00000	AB = 1.00000	EF = 0.14031	AQ = 0.60798	GO = 0.59986
N₂ = 4.00000	N₅ = 6.00000	AC = 0.80000	UV = 0.37500	BT = 0.55204	
N₃ = 5.00000	N₆ = 2.00000	EJ = 1.28062	HJ = 0.51531	PT = 0.27602	R · $\frac{GO - AF}{PT}$ = 0.00000
	R = 0.72408	AF = 0.40000	HK = 0.62799	GJ = 0.41633	



N₁ = 0.59793
N₂ = 3.30995
N₃ = 3.09190
N₄ = 2.76991
N₅ = 2.49893
N₆ = 3.65154
R = 0.30667

Unit.	AB := 1	Given.	N₁ := .59793	N₂ := 3.30995	N₃ := 3.09190		
			N₄ := 2.76991	N₅ := 2.49893	N₆ := 3.65154		
N_u := 3	A := $\frac{N_u}{N_1}$	B := $\frac{N_u}{N_2}$	C := $\frac{N_u}{N_3}$	D := $\frac{N_u}{N_4}$	E := $\frac{N_u}{N_5}$	F := $\frac{N_u}{N_6}$	

Descriptions.

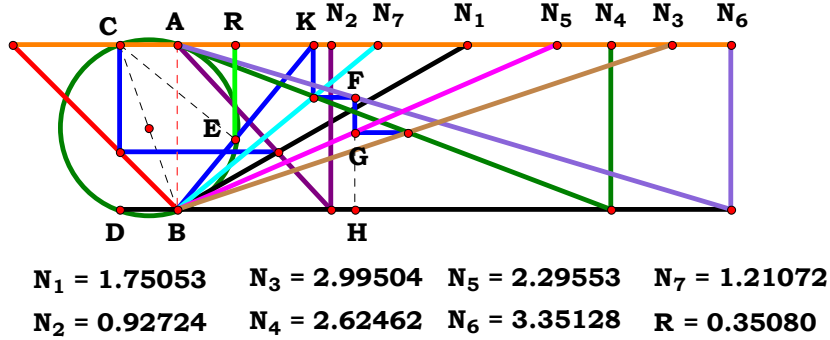
$$\frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})] \cdot (\mathbf{A} + \mathbf{B})^2 - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})}}{2 \cdot (\mathbf{A} + \mathbf{B}) \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}]} = 0.306668$$

$$\mathbf{Num} := \frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})] \cdot (\mathbf{A} + \mathbf{B})^2} - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})}{\sqrt{\left[\sqrt{\mathbf{A}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})] \cdot (\mathbf{A} + \mathbf{B})^2} - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot (\mathbf{A} + \mathbf{B}) \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}]}{\sqrt{[2 \cdot (\mathbf{A} + \mathbf{B}) \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}]]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\left[\sqrt{\mathbf{A}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})]} \cdot (\mathbf{A} + \mathbf{B})^2 - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \right] \cdot \sqrt{[\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})]^2 \cdot (2 \cdot \mathbf{A} + 2 \cdot \mathbf{B})^2}}{\left[\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) \right] \cdot (2 \cdot \mathbf{A} + 2 \cdot \mathbf{B}) \cdot \sqrt{\left[\sqrt{\mathbf{A}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 + 4 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})]} \cdot (\mathbf{A} + \mathbf{B})^2 - \mathbf{A} \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \right]^2}} = 0$$



$$\begin{array}{l}
 \text{Unit.} \quad AB := 1 \quad \text{Given.} \quad N_1 := 1.75053 \quad N_2 := .92724 \quad N_3 := 2.99504 \quad N_4 := 2.62462 \\
 \quad \quad \quad \quad \quad \quad \quad N_5 := 2.29553 \quad N_6 := 3.35128 \quad N_7 := 1.21072 \\
 N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}
 \end{array}$$

Descriptions.

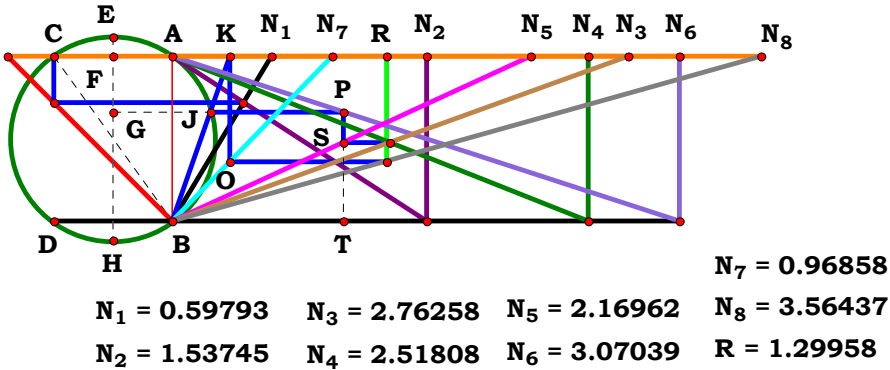
$$\frac{N_u \cdot (C \cdot E - C \cdot F + D \cdot E) \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - A \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right]}{(A + B) \cdot \left[G^2 \cdot E^2 \cdot (C + D)^2 + N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 \right]} = 0.350796$$

$$\text{Num} := \frac{N_u \cdot (C \cdot E - C \cdot F + D \cdot E) \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - A \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right]}{\sqrt{\left[N_u \cdot (C \cdot E - C \cdot F + D \cdot E) \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - A \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right] \right]^2}}$$

$$\text{Den} := \frac{(A + B) \cdot \left[G^2 \cdot E^2 \cdot (C + D)^2 + N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 \right]}{\sqrt{\left[(A + B) \cdot \left[G^2 \cdot E^2 \cdot (C + D)^2 + N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 \right] \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - A \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right] \cdot \sqrt{\left[N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2 \right]^2 \cdot (A + B)^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}}{\left[N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2 \right] \cdot (A + B) \cdot \sqrt{\left[N_u \cdot (C \cdot E - C \cdot F + D \cdot E) \cdot \left[G \cdot E \cdot (C + D) \cdot (A + B) - A \cdot N_u \cdot [C \cdot (E - F) + D \cdot E] \right] \right]^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := .59793
N₂ := 1.53745
N₃ := 2.76258
N₄ := 2.51808
N₅ := 2.16962
N₆ := 3.07039
N₇ := .96858
N₈ := 3.56437

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$
G := $\frac{N_u}{N_7}$
H := $\frac{N_u}{N_8}$

G · $\frac{\left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot (C \cdot E - C \cdot F + D \cdot E)} - A \cdot E \cdot (C + D)\right]}{2 \cdot H \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E]}$

= 1.299587

Num := $\frac{G \cdot \left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot (C \cdot E - C \cdot F + D \cdot E)} - A \cdot E \cdot (C + D)\right]}{\sqrt{\left[G \cdot \left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot (C \cdot E - C \cdot F + D \cdot E)} - A \cdot E \cdot (C + D)\right]\right]^2}}$

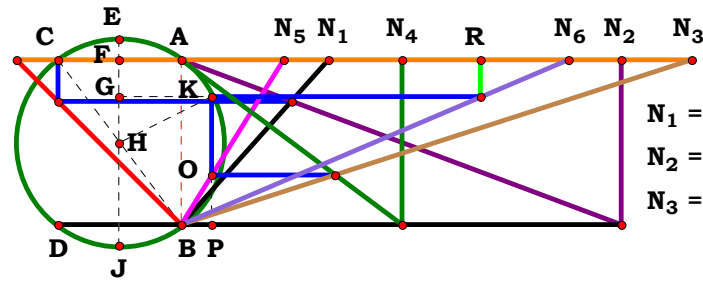
Den := $\frac{2 \cdot H \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E]}{\sqrt{\left[2 \cdot H \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E]\right]^2}}$

L := $\frac{\text{Num}}{\text{Den}}$

Num = 1
Den = 1
L = 1

L - $\frac{G \cdot \left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot (C \cdot E - C \cdot F + D \cdot E)} - A \cdot E \cdot (C + D)\right] \cdot \sqrt{H^2 \cdot [D \cdot E + C \cdot (E - F)]^2 \cdot (A + B)^2}}{H \cdot [D \cdot E + C \cdot (E - F)] \cdot (A + B) \cdot \sqrt{G^2 \cdot \left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot (A + B)^2 \cdot (C \cdot E - C \cdot F + D \cdot E)} - A \cdot E \cdot (C + D)\right]^2}}$

= 0



N₄ = 1.33641
N₅ = 0.61989
N₆ = 2.34396
R = 1.81285

Unit. AB := 1 Given. $N_1 := .88850$ $N_2 := 2.66100$ $N_3 := 3.09190$

$N_4 := 1.33641$ $N_5 := .61989$ $N_6 := 2.34396$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

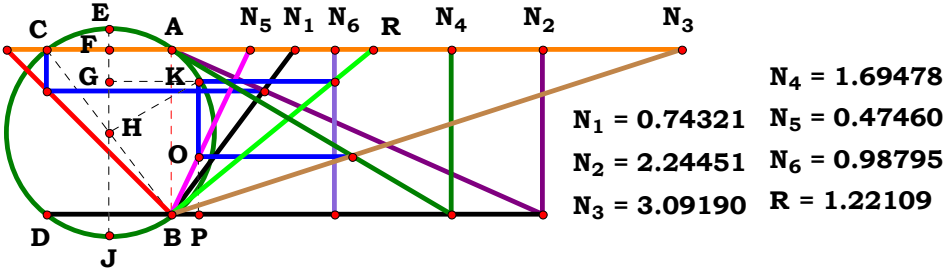
$$\frac{\mathbf{N_u} \cdot \left[\sqrt{\mathbf{N_u} \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) - 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N_u} \right] - 4 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B}) \right]} + \sqrt{\left[\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})} \right]}{2 \cdot \sqrt{\left[\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \mathbf{F} \cdot (\mathbf{C} + \mathbf{D}) \cdot \mathbf{E}}} = 1.812854$$

$$\mathbf{Num} := \frac{\mathbf{N_u} \cdot \left[\sqrt{\mathbf{N_u} \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) - 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N_u} \right] - 4 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B})} \right] + \sqrt{\left[\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})} \right]}{\sqrt{\left[\mathbf{N_u} \cdot \left[\sqrt{\mathbf{N_u} \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} + \mathbf{B}) - 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N_u} \right] - 4 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B})} \right] + \sqrt{\left[\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \mathbf{E} \cdot (\mathbf{C} + \mathbf{D})} \right]^2}$$

$$\mathbf{Den} := \frac{2 \cdot \sqrt{\left[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \mathbf{F} \cdot (\mathbf{C} + \mathbf{D}) \cdot \mathbf{E}}}{\sqrt{\left[2 \cdot \sqrt{\left[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \mathbf{F} \cdot (\mathbf{C} + \mathbf{D}) \cdot \mathbf{E}} \right]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot \left[\mathbf{E} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} + \mathbf{D}) - 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \right] - 4 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) \right]} + \mathbf{E} \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} + \mathbf{D})} \right] \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{F}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} + \mathbf{D})^2}}{\mathbf{E} \cdot \mathbf{F} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot \left[\sqrt{\mathbf{N}_{\mathbf{u}} \cdot \left[\mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot \left[\mathbf{E} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} + \mathbf{D}) - 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \right] - 4 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} + \mathbf{B}) \right]} + \mathbf{E} \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} + \mathbf{D})} \right]^2 \cdot \sqrt{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{C} + \mathbf{D})}} = \mathbf{0}$$



Unit.

$AB := 1$

Given.

$N_1 := .74321$

$N_2 := 2.24451$

$N_3 := 3.09190$

$N_4 := 1.69478$

$N_5 := .47460$

$N_6 := .98795$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

$F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \cdot E}{F \cdot \left[\sqrt{N_u} \cdot \left[E \cdot (C + D) \cdot \left[E \cdot (A + B) \cdot (C + D) - 4 \cdot A \cdot C \cdot N_u \right] - 4 \cdot C^2 \cdot N_u^2 \cdot (A + B) \right] + \sqrt{N_u \cdot (A + B)} \cdot E \cdot (C + D) \right]} = 1.221089$$

$$\text{Num} := \frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \cdot E}{\sqrt{\left[2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \cdot E \right]^2}}$$

$$\text{Den} := \frac{F \cdot \left[\sqrt{N_u} \cdot \left[E \cdot (C + D) \cdot \left[E \cdot (A + B) \cdot (C + D) - 4 \cdot A \cdot C \cdot N_u \right] - 4 \cdot C^2 \cdot N_u^2 \cdot (A + B) \right] + \sqrt{N_u \cdot (A + B)} \cdot E \cdot (C + D) \right]}{\sqrt{\left[F \cdot \left[\sqrt{N_u} \cdot \left[E \cdot (C + D) \cdot \left[E \cdot (A + B) \cdot (C + D) - 4 \cdot A \cdot C \cdot N_u \right] - 4 \cdot C^2 \cdot N_u^2 \cdot (A + B) \right] + \sqrt{N_u \cdot (A + B)} \cdot E \cdot (C + D) \right] \right]^2}}$$

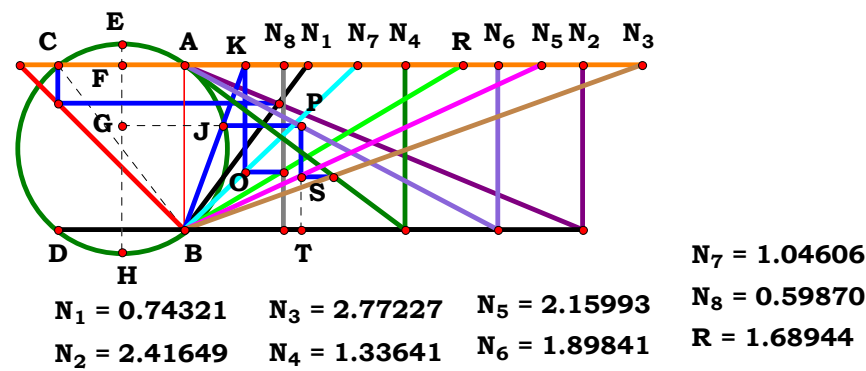
$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1

Den = 1

L = 1

$$L - \frac{E \cdot N_u \cdot \sqrt{F^2 \cdot \left[\sqrt{N_u} \cdot \left[E \cdot (C + D) \cdot \left[E \cdot (A + B) \cdot (C + D) - 4 \cdot A \cdot C \cdot N_u \right] - 4 \cdot C^2 \cdot N_u^2 \cdot (A + B) \right] + E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right]^2} \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D)}{F \cdot \left[\sqrt{N_u} \cdot \left[E \cdot (C + D) \cdot \left[E \cdot (A + B) \cdot (C + D) - 4 \cdot A \cdot C \cdot N_u \right] - 4 \cdot C^2 \cdot N_u^2 \cdot (A + B) \right] + E \cdot \sqrt{N_u \cdot (A + B)} \cdot (C + D) \right] \cdot \sqrt{E^2 \cdot N_u^3 \cdot (A + B) \cdot (C + D)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := .74321$ $N_2 := 2.41649$ $N_3 := 2.77227$ $N_4 := 1.33641$
 $N_5 := 2.15993$ $N_6 := 1.89841$ $N_7 := 1.04606$ $N_8 := .59870$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$ $H := \frac{N_u}{N_8}$

Descriptions.

$$\frac{2 \cdot N_u^2 \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E]}{G \cdot H \cdot \left[\sqrt{4 \cdot C \cdot F \cdot (A + B)^2 \cdot [C \cdot (E - F) + D \cdot E] + A^2 \cdot E^2 \cdot (C + D)^2} - A \cdot E \cdot (C + D) \right]} = 1.689429$$

$$\text{Den} := \frac{G \cdot H \cdot \left[\sqrt{4 \cdot C \cdot F \cdot (A + B)^2 \cdot [C \cdot (E - F) + D \cdot E] + A^2 \cdot E^2 \cdot (C + D)^2} - A \cdot E \cdot (C + D) \right]}{\sqrt{\left[G \cdot H \cdot \left[\sqrt{4 \cdot C \cdot F \cdot (A + B)^2 \cdot [C \cdot (E - F) + D \cdot E] + A^2 \cdot E^2 \cdot (C + D)^2} - A \cdot E \cdot (C + D) \right] \right]^2}}$$

Num = 1 Den = 1 L = 1

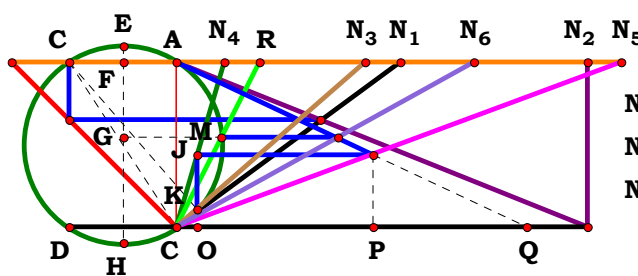
$$L - \frac{N_u^2 \cdot [D \cdot E + C \cdot (E - F)] \cdot (A + B) \cdot \sqrt{G^2 \cdot H^2 \cdot \left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot [D \cdot E + C \cdot (E - F)] \cdot (A + B)^2} - A \cdot E \cdot (C + D) \right]^2}}{G \cdot H \cdot \left[\sqrt{A^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot F \cdot [D \cdot E + C \cdot (E - F)] \cdot (A + B)^2} - A \cdot E \cdot (C + D) \right] \cdot \sqrt{N_u^4 \cdot [D \cdot E + C \cdot (E - F)]^2 \cdot (A + B)^2}} = 0$$

$$\text{Num} := \frac{N_u^2 \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E]}{\sqrt{\left[N_u^2 \cdot (A + B) \cdot [C \cdot (E - F) + D \cdot E] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$



Unit.
AB := 1
 Given.
N₁ := 1.35342
N₂ := 2.48665
N₃ := 1.14506
N₄ := .29034
N₅ := 2.69265
N₆ := 1.80156



N₁ = 1.35342
N₂ = 2.48665
N₃ = 1.14506
N₄ = 0.29034
N₅ = 2.69265
N₆ = 1.80156
R = 0.49974

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$KN_3 := \frac{N_3 \cdot CN_3}{BN_3} \quad BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$$

$$JO := \frac{BO}{N_4} \quad BP := N_5 \cdot JO$$

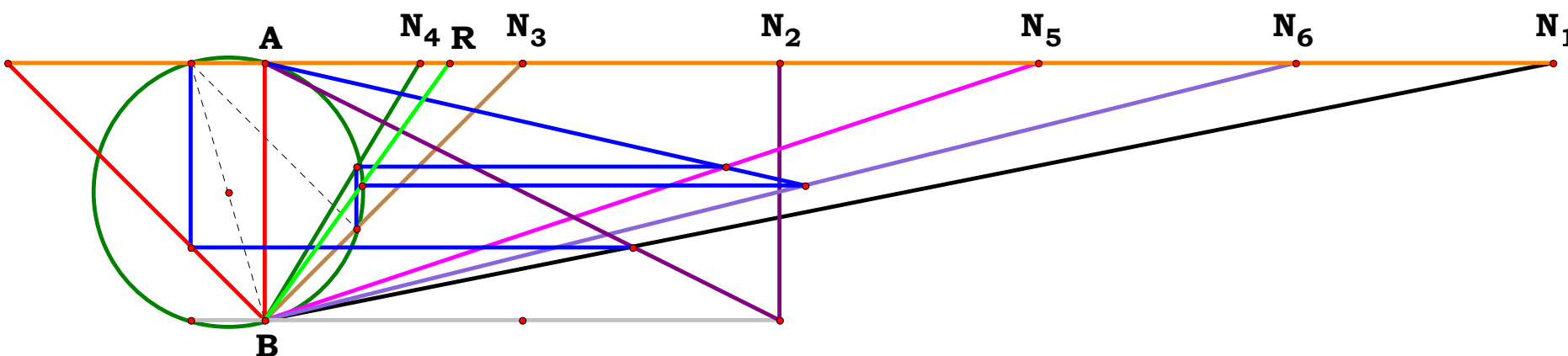
$$BQ := \frac{BP \cdot AB}{AB - JO} \quad FG := \frac{N_6}{BQ + N_6}$$

$$EG := FG + EF \quad GM := \sqrt{EG \cdot (EH - EG)}$$

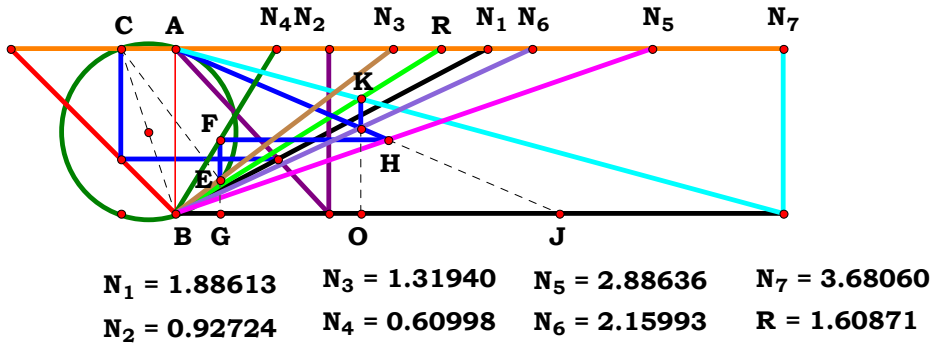
$$R := \frac{GM - AF}{AB - FG} \quad R = 0.499729$$

Definitions.

$$R - \frac{(N_1 + N_2)^2 \cdot \sqrt{N_2^2 \cdot N_6^2 \cdot [N_3^2 \cdot [N_2 + N_4 \cdot (N_1 + N_2)] - (N_3 - N_4) \cdot (N_1 + N_2)]^2 + N_2^2 \cdot N_3^2 \cdot N_5^2 \cdot (N_1 + N_2 - N_2 \cdot N_3)^2} \dots}{2 \cdot N_3 \cdot N_5 \cdot (N_1 + N_2 - N_2 \cdot N_3) \cdot (N_1 + N_2)^3} = 0$$



N₁ = 5.00000
N₂ = 2.00000
N₃ = 1.00000
N₄ = 0.60000
N₅ = 3.00000
N₆ = 4.00000
R = 0.71800
AB = 1.00000
AC = 0.28571
EH = 1.04002
AF = 0.14286
EF = 0.02001
BN₃ = 1.41421
CN₃ = 1.28571
KN₃ = 0.90914
BO = 0.35714
JO = 0.59524
BP = 1.78571
BQ = 4.41176
FG = 0.47552
EG = 0.49553
GM = 0.51943
R · $\frac{GM - AF}{AB - FG}$ = 0.00000



Unit. $AB := 1$ Given. $N_1 := 1.88613$ $N_2 := .92724$ $N_3 := 1.31940$ $N_4 := .60998$
 $N_5 := 2.88636$ $N_6 := 2.15993$ $N_7 := 3.68060$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

Descriptions.

$$\frac{D \cdot N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u)}{\left[E \cdot (C^2 - D \cdot C + N_u^2) + C \cdot D \cdot F - C \cdot D \cdot G \right] \cdot (A + B) + A \cdot D \cdot N_u \cdot (E - F + G)} = 1.608696$$

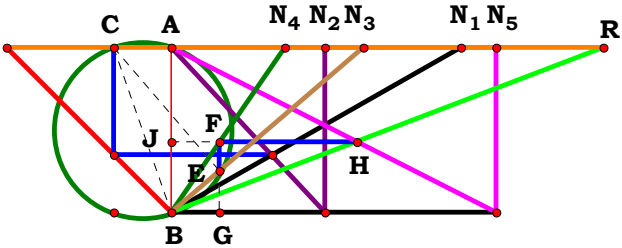
$$\text{Den} := \frac{\left[E \cdot (C^2 - D \cdot C + N_u^2) + C \cdot D \cdot F - C \cdot D \cdot G \right] \cdot (A + B) + A \cdot D \cdot N_u \cdot (E - F + G)}{\sqrt{\left[\left[E \cdot (C^2 - D \cdot C + N_u^2) + C \cdot D \cdot F - C \cdot D \cdot G \right] \cdot (A + B) + A \cdot D \cdot N_u \cdot (E - F + G) \right]^2}}$$

$$\text{Num} := \frac{D \cdot N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u)}{\sqrt{\left[D \cdot N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{D \cdot N_u \cdot \sqrt{\left[(A + B) \cdot \left[E \cdot (C^2 - D \cdot C + N_u^2) + C \cdot D \cdot F - C \cdot D \cdot G \right] + A \cdot D \cdot N_u \cdot (E - F + G) \right]^2} \cdot (A \cdot C + B \cdot C - A \cdot N_u)}{\left[(A + B) \cdot \left[E \cdot (C^2 - D \cdot C + N_u^2) + C \cdot D \cdot F - C \cdot D \cdot G \right] + A \cdot D \cdot N_u \cdot (E - F + G) \right] \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A \cdot C + B \cdot C - A \cdot N_u)^2}} = 0$$



N₁ = 1.75053
N₂ = 0.92724
N₃ = 1.16443
N₄ = 0.68746
N₅ = 1.96621
R = 2.61627

Unit. AB := 1 Given. N₁ := 1.75053 N₂ := .92724 N₃ := 1.16443

N₄ := .68746 N₅ := 1.96621

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$

Descriptions.

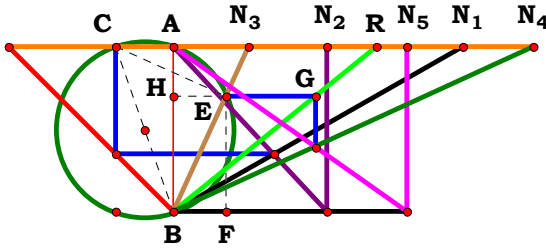
$$\frac{N_u \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - C \cdot D \cdot (A + B) + A \cdot D \cdot N_u \right]}{D \cdot E \cdot \left(A \cdot C + B \cdot C - A \cdot N_u \right)} = 2.616258$$

$$Num := \frac{N_u \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - C \cdot D \cdot (A + B) + A \cdot D \cdot N_u \right]}{\sqrt{\left[N_u \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A + B) - C \cdot D \cdot (A + B) + A \cdot D \cdot N_u \right] \right]^2}}$$

$$Den := \frac{D \cdot E \cdot \left(A \cdot C + B \cdot C - A \cdot N_u \right)}{\sqrt{\left[D \cdot E \cdot \left(A \cdot C + B \cdot C - A \cdot N_u \right) \right]^2}} \qquad L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot \sqrt{D^2 \cdot E^2 \cdot \left(A \cdot C + B \cdot C - A \cdot N_u \right)^2} \cdot \left[(A + B) \cdot C^2 - D \cdot (A + B) \cdot C + (A + B) \cdot N_u^2 + A \cdot D \cdot N_u \right]}{D \cdot E \cdot \sqrt{N_u^2 \cdot \left[(A + B) \cdot C^2 - D \cdot (A + B) \cdot C + (A + B) \cdot N_u^2 + A \cdot D \cdot N_u \right]^2} \cdot \left(A \cdot C + B \cdot C - A \cdot N_u \right)} = 0$$



N₁ = 1.75053
 N₂ = 0.92724
 N₃ = 0.45737
 N₄ = 2.17907
 N₅ = 1.41412
 R = 1.23212

Unit.
AB := 1
Given.
N₁ := 1.75053
N₂ := .92724
N₃ := .45737
N₄ := 2.17907
N₅ := 1.41412

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$

Descriptions.

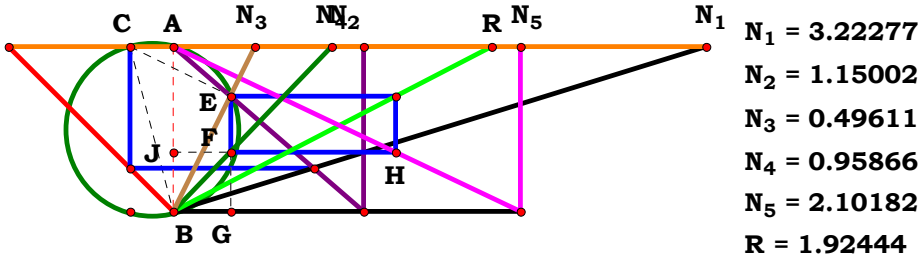
$$\frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B)}{C \cdot (D + E) \cdot \left[C \cdot (A + B) - A \cdot N_u\right]} = 1.232118$$

$$Num := \frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B)}{\sqrt{\left[N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2}}$$

$$Den := \frac{C \cdot (D + E) \cdot \left[C \cdot (A + B) - A \cdot N_u\right]}{\sqrt{\left[C \cdot (D + E) \cdot \left[C \cdot (A + B) - A \cdot N_u\right]\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{N_u \cdot \left(C^2 + N_u^2\right) \cdot (A + B) \cdot \sqrt{C^2 \cdot (D + E)^2 \cdot \left[C \cdot (A + B) - A \cdot N_u\right]^2}}{C \cdot (D + E) \cdot \left[C \cdot (A + B) - A \cdot N_u\right] \cdot \sqrt{N_u^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot (A + B)^2}} = 0$$



Unit.

$AB := 1$

Given.

$N_1 := 3.22277$

$N_2 := 1.15002$

$N_3 := .49611$

$N_4 := .958666$

$N_5 := 2.10182$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

Descriptions.

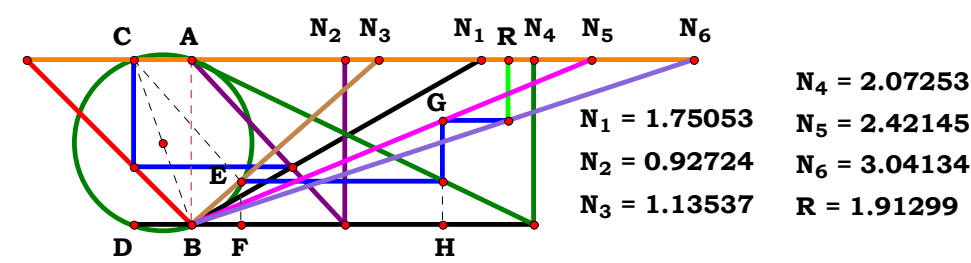
$$\frac{N_u \cdot \left[\left(C^2 + N_u^2 \right) \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u \right] \right]}{C \cdot E \cdot \left[C \cdot (A + B) - A \cdot N_u \right]} = 1.924444$$

$$Num := \frac{N_u \cdot \left[\left(C^2 + N_u^2 \right) \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u \right] \right]}{\sqrt{\left[N_u \cdot \left[\left(C^2 + N_u^2 \right) \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u \right] \right] \right]^2}}$$

$$Den := \frac{C \cdot E \cdot \left[C \cdot (A + B) - A \cdot N_u \right]}{\sqrt{\left[C \cdot E \cdot \left[C \cdot (A + B) - A \cdot N_u \right] \right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left[\left(C^2 + N_u^2 \right) \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u \right] \right] \cdot \sqrt{C^2 \cdot E^2 \cdot \left[C \cdot (A + B) - A \cdot N_u \right]^2}}{C \cdot E \cdot \left[C \cdot (A + B) - A \cdot N_u \right] \cdot \sqrt{\left[N_u \cdot \left[\left(C^2 + N_u^2 \right) \cdot (A + B) - D \cdot \left[C \cdot (A + B) - A \cdot N_u \right] \right] \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := .92724$ $N_3 := 1.13537$
 $N_4 := 2.07253$ $N_5 := 2.42145$ $N_6 := 3.04134$

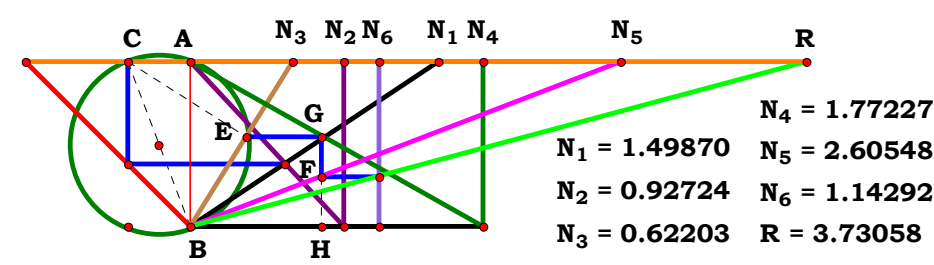
$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{E \cdot N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)]}{D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B)} = 1.912992$$
$$\text{Num} := \frac{E \cdot N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)]}{\sqrt{[E \cdot N_u^2 \cdot [A \cdot C + N_u \cdot (A + B)]]^2}}$$
$$\text{Den} := \frac{D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$
$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{E \cdot N_u^2 \cdot [N_u \cdot (A + B) + A \cdot C] \cdot \sqrt{D^2 \cdot F^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}}{D \cdot F \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{E^2 \cdot N_u^4 \cdot [N_u \cdot (A + B) + A \cdot C]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.49870$ $N_2 := .92724$ $N_3 := .62203$
 $N_4 := 1.77227$ $N_5 := 2.60548$ $N_6 := 1.14292$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

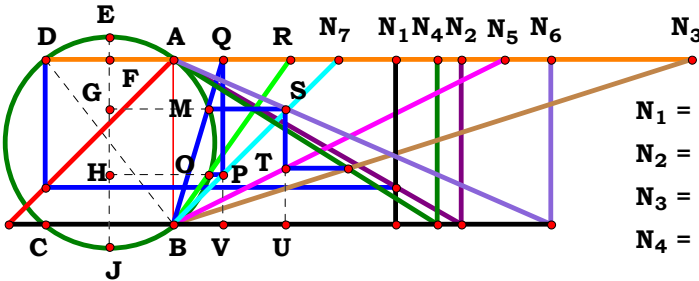
$$\frac{D \cdot (C^2 + N_u^2) \cdot (A + B)}{E \cdot F \cdot [A \cdot C + N_u \cdot (A + B)]} = 3.73055$$
$$Num := \frac{D \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{[D \cdot (C^2 + N_u^2) \cdot (A + B)]^2}}$$
$$Den := \frac{E \cdot F \cdot [A \cdot C + N_u \cdot (A + B)]}{\sqrt{[E \cdot F \cdot [A \cdot C + N_u \cdot (A + B)]]^2}}$$
$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{D \cdot (C^2 + N_u^2) \cdot (A + B) \cdot \sqrt{E^2 \cdot F^2 \cdot [N_u \cdot (A + B) + A \cdot C]^2}}{E \cdot F \cdot [N_u \cdot (A + B) + A \cdot C] \cdot \sqrt{D^2 \cdot (C^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.34373
N₂ := 1.74085
N₃ := 3.14033
N₄ := 1.59793
N₅ := 2.00496
N₆ := 2.28585
N₇ := .99764



N₁ = 1.34373
N₂ = 1.74085
N₃ = 3.14033
N₄ = 1.59793
N₅ = 2.00496
N₆ = 2.28585
N₇ = 0.99764
R = 0.70882

Descriptions.

AC := N₁ / N₂
EJ := √(AB² + AC²)

AF := AC / 2
EF := (EJ - AB) / 2

TU := N₄ / (N₃ + N₄)

BU := N₅ · TU

SU := (N₆ - BU) / N₆

GJ := SU + EF

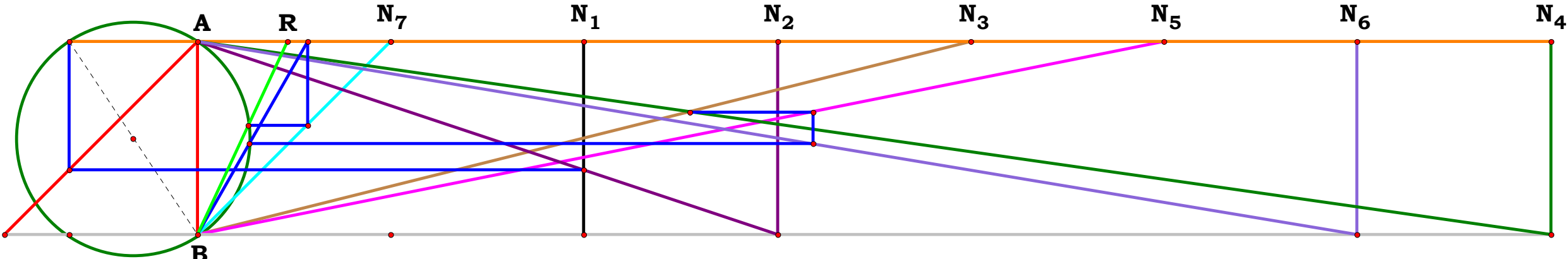
GK := √(GJ · (EJ - GJ))

AQ := (GK - AF) / SU

PV := AQ / N₇
HJ := PV + EF

HO := √(HJ · (EJ - HJ))
R := (HO - AF) / PV

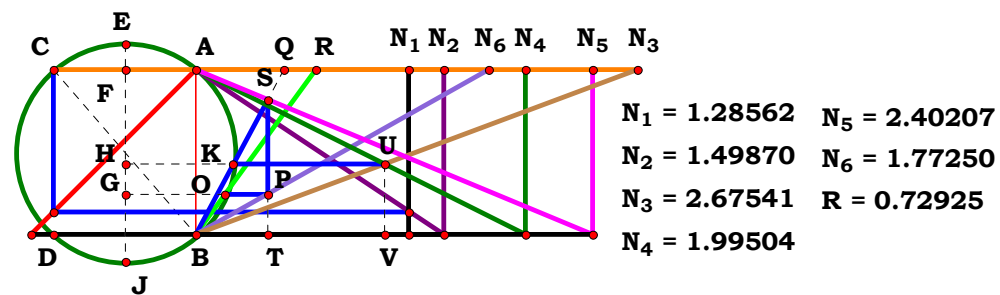
R = 0.708821



N ₁ = 2.00000	N ₅ = 5.00000	AB = 1.00000	EF = 0.10093	GJ = 0.57062	HJ = 0.66901
N ₂ = 3.00000	N ₆ = 6.00000	AC = 0.66667	TU = 0.63636	GK = 0.60016	HO = 0.59706
N ₃ = 4.00000	N ₇ = 1.00000	EJ = 1.20185	BU = 3.18182	AQ = 0.56808	R - (HO - AF) / PV = 0.00000
N ₄ = 7.00000	R = 0.46423	AF = 0.33333	SU = 0.46970	PV = 0.56808	

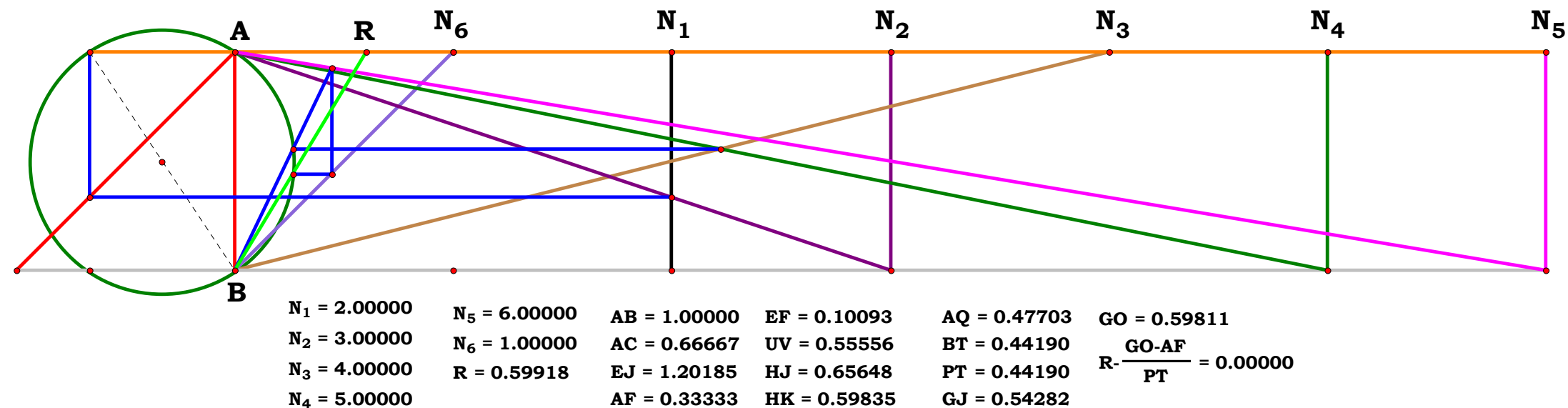


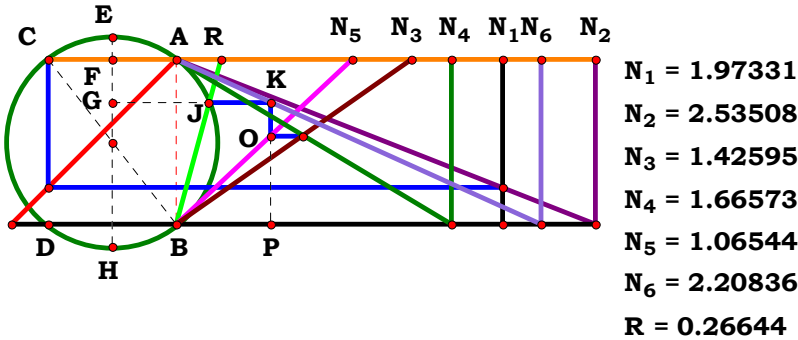
Unit.
AB := 1
Given.
N₁ := 1.28562
N₂ := 1.49870
N₃ := 2.67541
N₄ := 1.99504
N₅ := 2.40207
N₆ := 1.77250



Descriptions.

$$\begin{aligned} AC &:= \frac{N_1}{N_2} & EJ &:= \sqrt{AB^2 + AC^2} \\ AF &:= \frac{AC}{2} & EF &:= \frac{EJ - AB}{2} \\ UV &:= \frac{N_4}{N_3 + N_4} & HJ &:= UV + EF \\ HK &:= \sqrt{HJ \cdot (EJ - HJ)} & AQ &:= \frac{HK - AF}{UV} \\ BT &:= \frac{AQ \cdot N_5}{AQ + N_5} & PT &:= \frac{BT}{N_6} \\ GJ &:= PT + EF & GO &:= \sqrt{GJ \cdot (EJ - GJ)} \\ R &:= \frac{GO - AF}{PT} & R &= 0.729244 \end{aligned}$$





Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.53508$ $N_3 := 1.42595$

$N_4 := 1.66573$ $N_5 := 1.06544$ $N_6 := 2.20836$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3} \qquad D := \frac{N_u}{N_4} \qquad E := \frac{N_u}{N_5} \qquad F := \frac{N_u}{N_6}$$

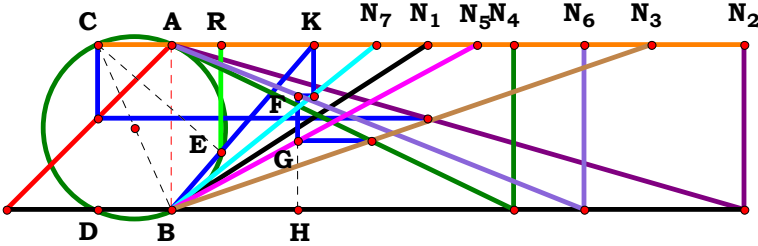
$$\frac{\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D)}{2 \cdot A \cdot [C \cdot (E - F) + D \cdot E]} = 0.266443$$

$$Num := \frac{\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D)}{\sqrt{\left[\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D)\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot [C \cdot (E - F) + D \cdot E]}{\sqrt{[2 \cdot A \cdot [C \cdot (E - F) + D \cdot E]]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E)} - B \cdot E \cdot (C + D)\right] \cdot \sqrt{A^2 \cdot [D \cdot E + C \cdot (E - F)]^2}}{A \cdot [D \cdot E + C \cdot (E - F)] \cdot \sqrt{\left[\sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E)} - B \cdot E \cdot (C + D)\right]^2}} = 0$$



N₁ = 1.54713 N₃ = 2.90787 N₅ = 1.84998 N₇ = 1.23978
N₂ = 3.46492 N₄ = 2.07253 N₆ = 2.49893 R = 0.30489

Unit. AB := 1 Given. N₁ := 1.54713 N₂ := 3.46492 N₃ := 2.90787 N₄ := 2.07253

N₅ := 1.84998 N₆ := 2.49893 N₇ := 1.23978

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$ E := $\frac{N_u}{N_5}$ F := $\frac{N_u}{N_6}$ G := $\frac{N_u}{N_7}$

Descriptions.

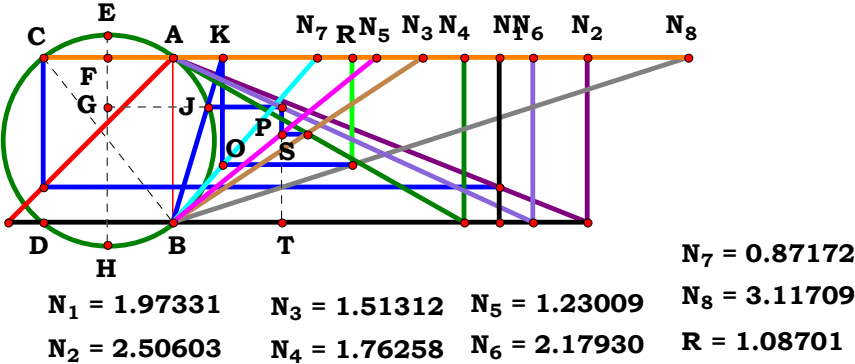
$$\frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [A \cdot E \cdot G \cdot (C + D) - B \cdot N_u \cdot (C \cdot E - C \cdot F + D \cdot E)]}{N_u^2 \cdot A \cdot [C \cdot (E - F) + D \cdot E]^2 + A \cdot E^2 \cdot G^2 \cdot (C + D)^2} = 0.30489$$

$$Num := \frac{N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [A \cdot E \cdot G \cdot (C + D) - B \cdot N_u \cdot (C \cdot E - C \cdot F + D \cdot E)]}{\sqrt{[N_u \cdot [C \cdot (E - F) + D \cdot E] \cdot [A \cdot E \cdot G \cdot (C + D) - B \cdot N_u \cdot (C \cdot E - C \cdot F + D \cdot E)]^2}}$$

$$Den := \frac{N_u^2 \cdot A \cdot [C \cdot (E - F) + D \cdot E]^2 + A \cdot E^2 \cdot G^2 \cdot (C + D)^2}{\sqrt{[N_u^2 \cdot A \cdot [C \cdot (E - F) + D \cdot E]^2 + A \cdot E^2 \cdot G^2 \cdot (C + D)^2]^2}} \qquad L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot [D \cdot E + C \cdot (E - F)] \cdot \sqrt{[A \cdot N_u^2 \cdot [D \cdot E + C \cdot (E - F)]^2 + A \cdot E^2 \cdot G^2 \cdot (C + D)^2]^2} \cdot [A \cdot E \cdot G \cdot (C + D) - B \cdot N_u \cdot (C \cdot E - C \cdot F + D \cdot E)]}{[A \cdot N_u^2 \cdot [D \cdot E + C \cdot (E - F)]^2 + A \cdot E^2 \cdot G^2 \cdot (C + D)^2] \cdot \sqrt{N_u^2 \cdot [D \cdot E + C \cdot (E - F)]^2 \cdot [A \cdot E \cdot G \cdot (C + D) - B \cdot N_u \cdot (C \cdot E - C \cdot F + D \cdot E)]^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.97331
N₂ := 2.50603
N₃ := 1.51312
N₄ := 1.76258
N₅ := 1.23009
N₆ := 2.17930
N₇ := .87172
N₈ := 3.11709

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$
G := $\frac{N_u}{N_7}$
H := $\frac{N_u}{N_8}$

Descriptions.

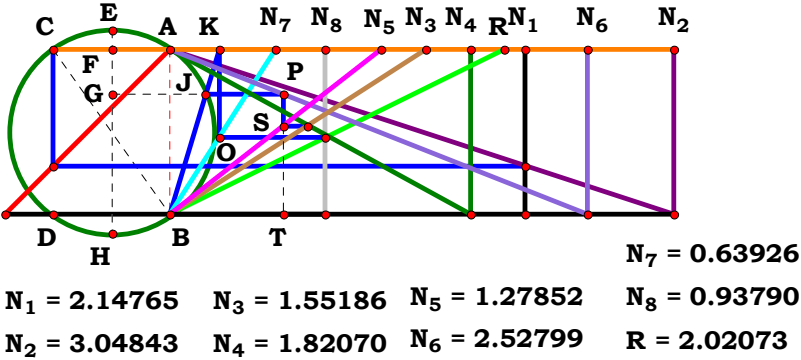
$$\frac{G \cdot \left[\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D) \right]}{2 \cdot A \cdot H \cdot [C \cdot (E - F) + D \cdot E]} = 1.087008$$

$$Num := \frac{G \cdot \left[\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D) \right]}{\sqrt{\left[G \cdot \left[\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D) \right] \right]^2}}$$

Den := $\frac{2 \cdot A \cdot H \cdot [C \cdot (E - F) + D \cdot E]}{\sqrt{[2 \cdot A \cdot H \cdot [C \cdot (E - F) + D \cdot E]]^2}}$
L := $\frac{Num}{Den}$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{G \cdot \left[\sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E)} - B \cdot E \cdot (C + D) \right] \cdot \sqrt{A^2 \cdot H^2 \cdot [D \cdot E + C \cdot (E - F)]^2}}{A \cdot H \cdot [D \cdot E + C \cdot (E - F)] \cdot \sqrt{G^2 \cdot \left[\sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E)} - B \cdot E \cdot (C + D) \right]^2}} = 0$$



Unit.

AB := 1

Given.

$N_1 := 2.14765$
 $N_2 := 3.04843$
 $N_3 := 1.55186$
 $N_4 := 1.82070$

$N_5 := 1.27852$
 $N_6 := 2.52799$
 $N_7 := .63926$
 $N_8 := .93790$

$N_u := 3$

$A := \frac{N_u}{N_1}$
 $B := \frac{N_u}{N_2}$
 $C := \frac{N_u}{N_3}$
 $D := \frac{N_u}{N_4}$
 $E := \frac{N_u}{N_5}$
 $F := \frac{N_u}{N_6}$
 $G := \frac{N_u}{N_7}$
 $H := \frac{N_u}{N_8}$

Descriptions.

$$\frac{2 \cdot A \cdot N_u^2 \cdot [C \cdot (E - F) + D \cdot E]}{G \cdot H \cdot \left[\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D) \right]} = 2.02073$$

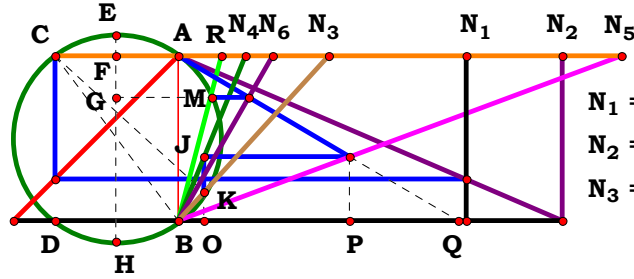
$$Num := \frac{2 \cdot A \cdot N_u^2 \cdot [C \cdot (E - F) + D \cdot E]}{\sqrt{\left[2 \cdot A \cdot N_u^2 \cdot [C \cdot (E - F) + D \cdot E] \right]^2}}$$

$$Den := \frac{G \cdot H \cdot \left[\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D) \right]}{\sqrt{\left[G \cdot H \cdot \left[\sqrt{4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E) + B^2 \cdot E^2 \cdot (C + D)^2} - B \cdot E \cdot (C + D) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$
 $Den = 1$
 $L = 1$

$$L - \frac{A \cdot N_u^2 \cdot [D \cdot E + C \cdot (E - F)] \cdot \sqrt{G^2 \cdot H^2 \cdot \left[\sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E)} - B \cdot E \cdot (C + D) \right]^2}}{G \cdot H \cdot \left[\sqrt{B^2 \cdot E^2 \cdot (C + D)^2 + 4 \cdot A^2 \cdot C \cdot F \cdot (C \cdot E - C \cdot F + D \cdot E)} - B \cdot E \cdot (C + D) \right] \cdot \sqrt{A^2 \cdot N_u^4 \cdot [D \cdot E + C \cdot (E - F)]^2}} = 0$$



$N_4 = 0.40657$
 $N_5 = 2.68296$
 $N_6 = 0.57146$
 $R = 0.26613$

Unit. $AB := 1$ Given. $N_1 := 1.74085$ $N_2 := 2.32200$ $N_3 := .91260$
 $N_4 := .40657$ $N_5 := 2.68296$ $N_6 := .57146$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

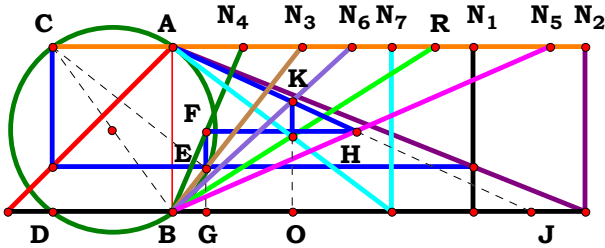
$$\frac{\sqrt{D \cdot F \cdot (A \cdot C - B \cdot N_u) \cdot \left[2 \cdot E \cdot (2 \cdot A^2 + B^2) \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] + B^2 \cdot D \cdot F \cdot (A \cdot C - B \cdot N_u) \right] + B^2 \cdot E^2 \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right]^2 - A \cdot B \cdot E \cdot N_u^2 \dots + (B^2 \cdot D \cdot F - B^2 \cdot D \cdot E) \cdot N_u - A \cdot B \cdot C \cdot (C \cdot E - D \cdot E + D \cdot F)}}{2 \cdot A \cdot D \cdot F \cdot (A \cdot C - B \cdot N_u)} = 0.266125$$

$$\text{Num} := \frac{\sqrt{D \cdot F \cdot (A \cdot C - B \cdot N_u) \cdot \left[2 \cdot E \cdot (2 \cdot A^2 + B^2) \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] + B^2 \cdot D \cdot F \cdot (A \cdot C - B \cdot N_u) \right] + B^2 \cdot E^2 \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right]^2 - A \cdot B \cdot E \cdot N_u^2 \dots + (B^2 \cdot D \cdot F - B^2 \cdot D \cdot E) \cdot N_u - A \cdot B \cdot C \cdot (C \cdot E - D \cdot E + D \cdot F)}}{\sqrt{\left[\sqrt{D \cdot F \cdot (A \cdot C - B \cdot N_u) \cdot \left[2 \cdot E \cdot (2 \cdot A^2 + B^2) \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] + B^2 \cdot D \cdot F \cdot (A \cdot C - B \cdot N_u) \right] + B^2 \cdot E^2 \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right]^2 - A \cdot B \cdot E \cdot N_u^2 \dots + (B^2 \cdot D \cdot F - B^2 \cdot D \cdot E) \cdot N_u - A \cdot B \cdot C \cdot (C \cdot E - D \cdot E + D \cdot F)} \right]^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot D \cdot F \cdot (A \cdot C - B \cdot N_u)}{\sqrt{\left[2 \cdot A \cdot D \cdot F \cdot (A \cdot C - B \cdot N_u) \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}} \quad \text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \left[\sqrt{\frac{B^2 \cdot E^2 \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right]^2 \dots + D \cdot F \cdot \left[2 \cdot E \cdot (2 \cdot A^2 + B^2) \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] \dots + B^2 \cdot D \cdot F \cdot (A \cdot C - B \cdot N_u) \right] \cdot (A \cdot C - B \cdot N_u)}{(B^2 \cdot D \cdot F - B^2 \cdot D \cdot E) \cdot N_u - A \cdot B \cdot C \cdot (C \cdot E - D \cdot E + D \cdot F) - A \cdot B \cdot E \cdot N_u^2}} \right] \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (A \cdot C - B \cdot N_u)^2} = 0$$

$$A \cdot D \cdot F \cdot \left[\sqrt{\frac{B^2 \cdot E^2 \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right]^2 \dots + D \cdot F \cdot \left[2 \cdot E \cdot (2 \cdot A^2 + B^2) \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] \dots + B^2 \cdot D \cdot F \cdot (A \cdot C - B \cdot N_u) \right] \cdot (A \cdot C - B \cdot N_u)}{(B^2 \cdot D \cdot F - B^2 \cdot D \cdot E) \cdot N_u - A \cdot B \cdot C \cdot (C \cdot E - D \cdot E + D \cdot F) - A \cdot B \cdot E \cdot N_u^2}} \right]^2 \cdot (A \cdot C - B \cdot N_u)$$



$N_1 = 1.81833$ **$N_3 = 0.78668$** **$N_5 = 2.28585$** **$N_7 = 1.32695$**
 $N_2 = 2.49634$ **$N_4 = 0.42595$** **$N_6 = 1.08481$** **$R = 1.59029$**

Unit. **$AB := 1$** **Given.** **$N_1 := 1.81833$** **$N_2 := 2.49634$** **$N_3 := .78668$** **$N_4 := .42595$**

$N_5 := 2.28585$ **$N_6 := 1.08481$** **$N_7 := 1.32695$**

$N_u := 3$ **$A := \frac{N_u}{N_1}$** **$B := \frac{N_u}{N_2}$** **$C := \frac{N_u}{N_3}$** **$D := \frac{N_u}{N_4}$** **$E := \frac{N_u}{N_5}$** **$F := \frac{N_u}{N_6}$** **$G := \frac{N_u}{N_7}$**

Descriptions.

$$\frac{D \cdot N_u \cdot (A \cdot C - B \cdot N_u)}{F \cdot D \cdot (A \cdot C - B \cdot N_u) + \left[E \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] - D \cdot G \cdot (A \cdot C - B \cdot N_u) \right]} = 1.590298$$

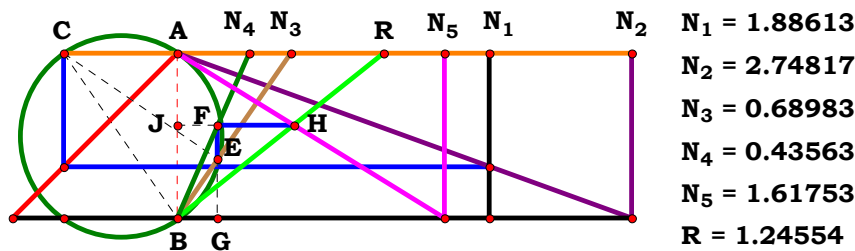
$$Num := \frac{D \cdot N_u \cdot (A \cdot C - B \cdot N_u)}{\sqrt{\left[D \cdot N_u \cdot (A \cdot C - B \cdot N_u) \right]^2}}$$

$$Den := \frac{F \cdot D \cdot (A \cdot C - B \cdot N_u) + \left[E \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] - D \cdot G \cdot (A \cdot C - B \cdot N_u) \right]}{\sqrt{\left[F \cdot D \cdot (A \cdot C - B \cdot N_u) + \left[E \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] - D \cdot G \cdot (A \cdot C - B \cdot N_u) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{D \cdot N_u \cdot \sqrt{\left[E \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] + D \cdot F \cdot (A \cdot C - B \cdot N_u) - D \cdot G \cdot (A \cdot C - B \cdot N_u) \right]^2} \cdot (A \cdot C - B \cdot N_u)}{\sqrt{D^2 \cdot N_u^2 \cdot (A \cdot C - B \cdot N_u)^2 \cdot \left[E \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] + D \cdot F \cdot (A \cdot C - B \cdot N_u) - D \cdot G \cdot (A \cdot C - B \cdot N_u) \right]}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.88613 \quad N_2 := 2.74817 \quad N_3 := .68983$$

$$N_4 := .43563 \quad N_5 := 1.61753$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5}$$

Descriptions.

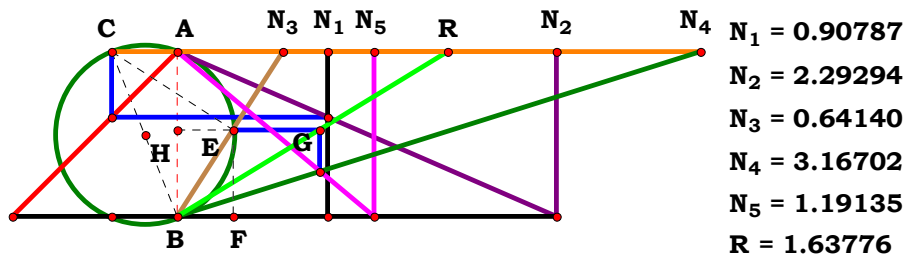
$$\frac{N_u \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right]}{D \cdot E \cdot (A \cdot C - B \cdot N_u)} = 1.245537$$

$$\text{Num} := \frac{N_u \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right]}{\sqrt{\left[N_u \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right] \right]^2}}$$

$$\text{Den} := \frac{D \cdot E \cdot (A \cdot C - B \cdot N_u)}{\sqrt{\left[D \cdot E \cdot (A \cdot C - B \cdot N_u) \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{D^2 \cdot E^2 \cdot (A \cdot C - B \cdot N_u)^2} \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right]}{D \cdot E \cdot \sqrt{N_u^2 \cdot \left[A \cdot C^2 - A \cdot D \cdot C + N_u \cdot (B \cdot D + A \cdot N_u) \right]^2} \cdot (A \cdot C - B \cdot N_u)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .90787$ $N_2 := 2.29294$ $N_3 := .64140$
 $N_4 := 3.16702$ $N_5 := 1.19135$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot N_u \cdot (C^2 + N_u^2)}{C \cdot (D + E) \cdot (A \cdot C - B \cdot N_u)} = 1.63776$$

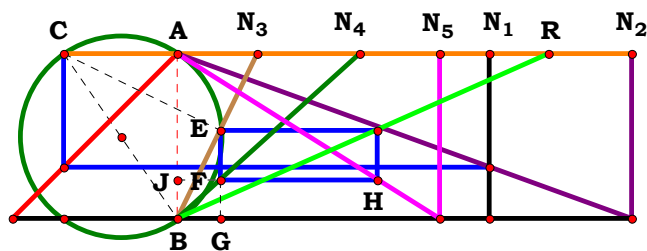
$$Num := \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot N_u \cdot (C^2 + N_u^2)]^2}}$$

$$Den := \frac{C \cdot (D + E) \cdot (A \cdot C - B \cdot N_u)}{\sqrt{[C \cdot (D + E) \cdot (A \cdot C - B \cdot N_u)]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot \sqrt{C^2 \cdot (D + E)^2 \cdot (A \cdot C - B \cdot N_u)^2}}{C \cdot (D + E) \cdot (A \cdot C - B \cdot N_u) \cdot \sqrt{A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2}} = 0$$



N₁ = 1.88613
N₂ = 2.74817
N₃ = 0.48642
N₄ = 1.10395
N₅ = 1.58847
R = 2.24882

Unit. AB := 1 Given. $N_1 := 1.88613$ $N_2 := 2.74817$ $N_3 := .48642$
 $N_4 := 1.10395$ $N_5 := 1.58847$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

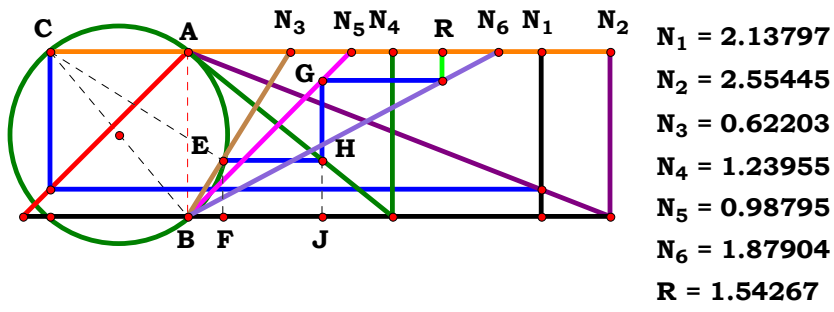
$$\frac{N_u \cdot [A \cdot C \cdot (C - D) + N_u \cdot (B \cdot D + A \cdot N_u)]}{C \cdot E \cdot (A \cdot C - B \cdot N_u)} = 2.2488$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})]}{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})]]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{[\mathbf{C} \cdot \mathbf{E} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) + \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D})] \cdot \sqrt{\mathbf{C}^2 \cdot \mathbf{E}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2}}{\mathbf{C} \cdot \mathbf{E} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{D} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) + \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D})]^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 2.13797$ $N_2 := 2.55446$ $N_3 := .62203$
 $N_4 := 1.23955$ $N_5 := .98795$ $N_6 := 1.87904$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

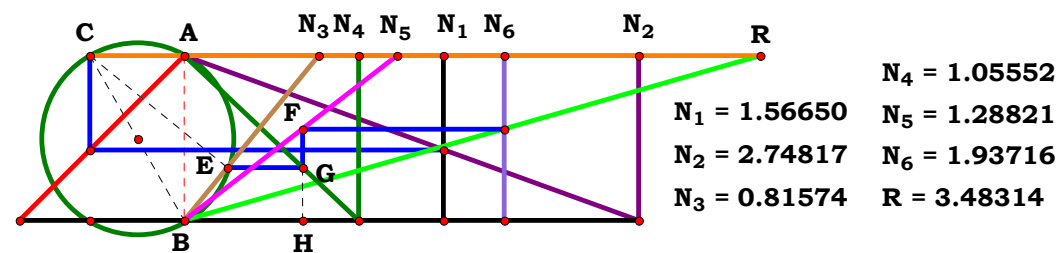
Descriptions.

$$\frac{E \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u)}{F \cdot [A \cdot D \cdot (C^2 + N_u^2)]} = 1.542679 \qquad Num := \frac{E \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u)}{\sqrt{[E \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u)]^2}}$$

$$Den := \frac{F \cdot [A \cdot D \cdot (C^2 + N_u^2)]}{\sqrt{[F \cdot [A \cdot D \cdot (C^2 + N_u^2)]]^2}} \qquad L := \frac{Num}{Den}$$

$Num = 1 \qquad Den = 1 \qquad L = 1$

$$L - \frac{E \cdot N_u^2 \cdot (B \cdot C + A \cdot N_u) \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (C^2 + N_u^2)^2}}{A \cdot D \cdot F \cdot (C^2 + N_u^2) \cdot \sqrt{E^2 \cdot N_u^4 \cdot (B \cdot C + A \cdot N_u)^2}} = 0$$



$$\begin{array}{l} \text{Unit.} \quad \mathbf{AB} := 1 \quad \text{Given.} \quad \mathbf{N_1} := 1.56650 \quad \mathbf{N_2} := 2.74817 \quad \mathbf{N_3} := .81574 \\ \mathbf{N_4} := 1.05552 \quad \mathbf{N_5} := 1.28821 \quad \mathbf{N_6} := 1.93716 \\ \mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}} \quad \mathbf{E} := \frac{\mathbf{N_u}}{\mathbf{N_5}} \quad \mathbf{F} := \frac{\mathbf{N_u}}{\mathbf{N_6}} \end{array}$$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{\mathbf{E} \cdot \mathbf{F} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_u)} = 3.483165$$

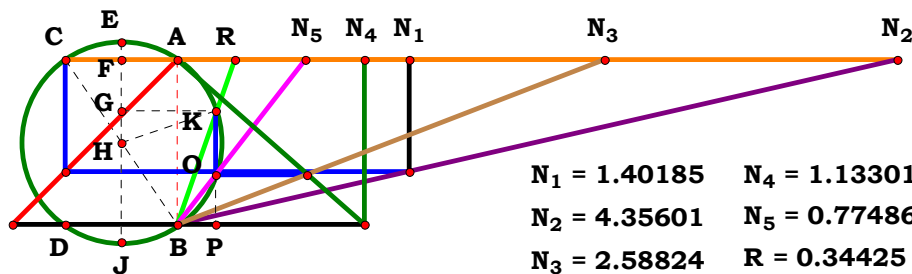
$$\text{Num} := \frac{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)}{\sqrt{[\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)]^2}}$$

$$\text{Den} := \frac{\mathbf{E} \cdot \mathbf{F} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_u)}{\sqrt{[\mathbf{E} \cdot \mathbf{F} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_u)]^2}}$$

$$\mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{D} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot \sqrt{\mathbf{E}^2 \cdot \mathbf{F}^2 \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_u)^2}}{\mathbf{E} \cdot \mathbf{F} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_u) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)^2}} = \mathbf{0}$$



Unit.

$AB := 1$

Given.

$N_1 := 1.40185$

$N_2 := 4.35601$

$N_3 := 2.58824$

$N_4 := 1.13301$

$N_5 := .77486$

$N_u := 3$

$A := \frac{N_u}{N_1}$

$B := \frac{N_u}{N_2}$

$C := \frac{N_u}{N_3}$

$D := \frac{N_u}{N_4}$

$E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{2 \cdot C \cdot \left(\sqrt{N_u}\right)^3 \cdot \sqrt{A \cdot B}}{\sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot E^2 \cdot (C + D)^2 - 4 \cdot A \cdot C^2 \cdot N_u^2 - 4 \cdot N_u \cdot C \cdot E \cdot (C + D) \cdot (A - B)\right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)} = 0.344251$$

$$Num := \frac{2 \cdot C \cdot \left(\sqrt{N_u}\right)^3 \cdot \sqrt{A \cdot B}}{\sqrt{\left[2 \cdot C \cdot \left(\sqrt{N_u}\right)^3 \cdot \sqrt{A \cdot B}\right]^2}}$$

$$Den := \frac{\sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot E^2 \cdot (C + D)^2 - 4 \cdot A \cdot C^2 \cdot N_u^2 - 4 \cdot N_u \cdot C \cdot E \cdot (C + D) \cdot (A - B)\right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)}{\sqrt{\left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot E^2 \cdot (C + D)^2 - 4 \cdot A \cdot C^2 \cdot N_u^2 - 4 \cdot N_u \cdot C \cdot E \cdot (C + D) \cdot (A - B)\right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)\right]^2}}$$

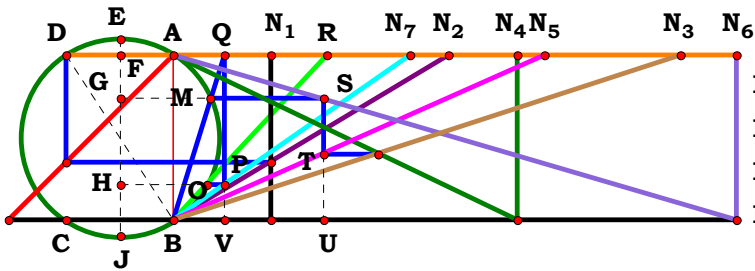
$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} \cdot \sqrt{\left[\sqrt{B} \cdot \sqrt{-N_u} \cdot \left[4 \cdot A \cdot C^2 \cdot N_u^2 - A \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + E \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C + D)\right]^2}}{\left[\sqrt{B} \cdot \sqrt{-N_u} \cdot \left[4 \cdot A \cdot C^2 \cdot N_u^2 - A \cdot E^2 \cdot (C + D)^2 + 4 \cdot C \cdot E \cdot N_u \cdot (C + D) \cdot (A - B)\right] + E \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C + D)\right] \cdot \sqrt{A \cdot B \cdot C^2 \cdot N_u^3}} = 0$$



Unit.
AB := 1
Given.
N₁ := .58824
N₂ := 1.66336
N₃ := 3.07253
N₄ := 2.08221
N₅ := 2.24710
N₆ := 3.40940
N₇ := 1.43350



N₁ = 0.58824
N₂ = 1.66336
N₃ = 3.07253
N₄ = 2.08221
N₅ = 2.24710
N₆ = 3.40940
N₇ = 1.43350
R = 0.93106

Descriptions.

AC := (N₂ - N₁) / N₂
EJ := sqrt(AB² + AC²)

AF := AC / 2
EF := (EJ - AB) / 2

TU := N₄ / (N₃ + N₄)

BU := N₅ · TU

SU := (N₆ - BU) / N₆

GJ := SU + EF

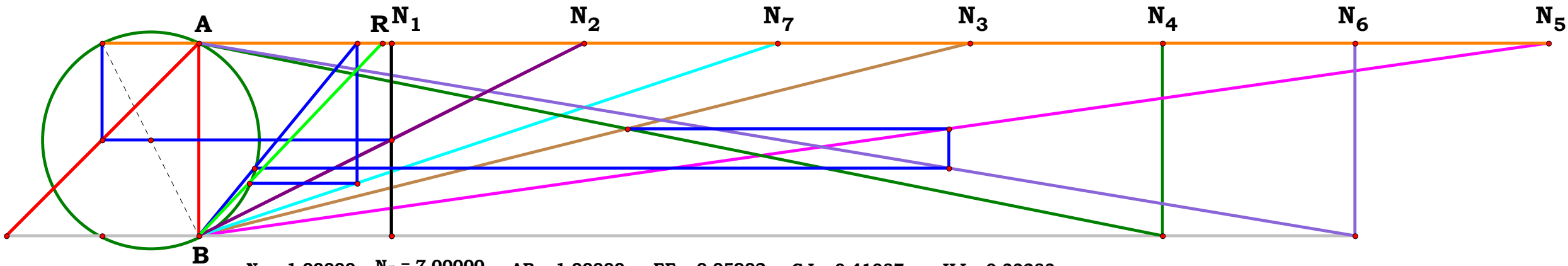
GK := sqrt(GJ · (EJ - GJ))

AQ := (GK - AF) / SU

PV := AQ / N₇
HJ := PV + EF

HO := sqrt(HJ · (EJ - HJ))
R := (HO - AF) / PV

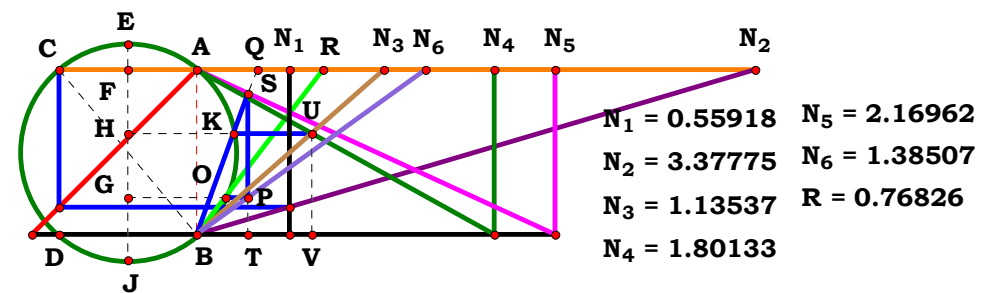
R = 0.931063



N ₁ = 1.00000	N ₅ = 7.00000	AB = 1.00000	EF = 0.05902	GJ = 0.41087	HJ = 0.33283
N ₂ = 2.00000	N ₆ = 6.00000	AC = 0.50000	TU = 0.55556	GK = 0.53903	HO = 0.51122
N ₃ = 4.00000	N ₇ = 3.00000	EJ = 1.11803	BU = 3.88889	AQ = 0.82145	R · (HO - AF) / PV = 0.00000
N ₄ = 5.00000	R = 0.95398	AF = 0.25000	SU = 0.35185	PV = 0.27382	



Unit.
AB := 1
Given.
N₁ := .55918 **N₃** := 1.13537
N₂ := 3.37775 **N₄** := 1.80133
 N₅ := 2.16962
 N₆ := 1.38507



Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

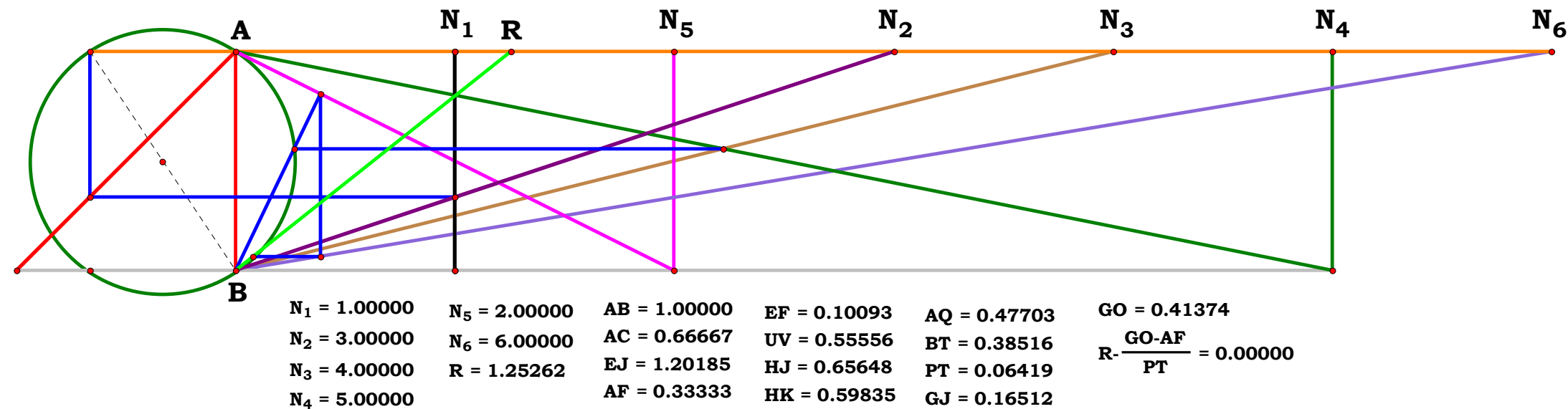
$$UV := \frac{N_4}{N_3 + N_4} \quad HJ := UV + EF$$

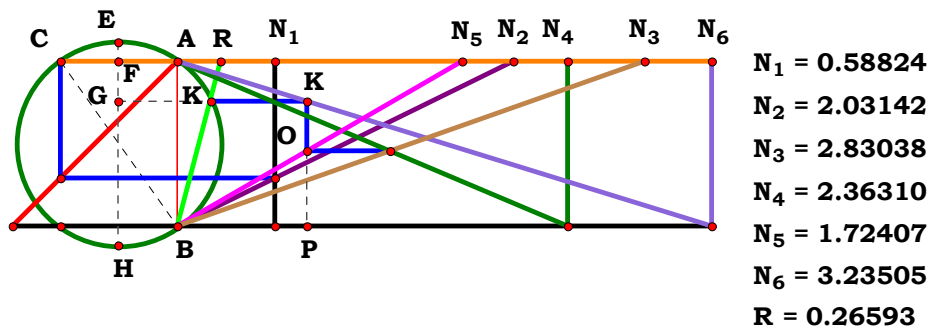
$$HK := \sqrt{HJ \cdot (EJ - HJ)} \quad AQ := \frac{HK - AF}{UV}$$

$$BT := \frac{AQ \cdot N_5}{AQ + N_5} \quad PT := \frac{BT}{N_6}$$

$$GJ := PT + EF \quad GO := \sqrt{GJ \cdot (EJ - GJ)}$$

$$R := \frac{GO - AF}{PT} \quad R = 0.768258$$





$$\begin{array}{l} \text{Unit.} \quad \text{AB} := 1 \quad \text{Given.} \quad \text{N}_1 := .58824 \quad \text{N}_2 := 2.03142 \quad \text{N}_3 := 2.83038 \\ \text{N}_4 := 2.36310 \quad \text{N}_5 := 1.72407 \quad \text{N}_6 := 3.23505 \\ \text{N}_u := 3 \quad \text{A} := \frac{\text{N}_u}{\text{N}_1} \quad \text{B} := \frac{\text{N}_u}{\text{N}_2} \quad \text{C} := \frac{\text{N}_u}{\text{N}_3} \quad \text{D} := \frac{\text{N}_u}{\text{N}_4} \quad \text{E} := \frac{\text{N}_u}{\text{N}_5} \quad \text{F} := \frac{\text{N}_u}{\text{N}_6} \end{array}$$

Descriptions.

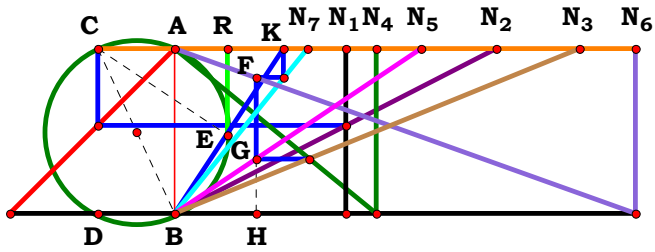
$$\frac{\sqrt{4 \cdot \text{A}^2 \cdot \text{C} \cdot \text{F} \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E}) + \text{E}^2 \cdot (\text{C} + \text{D})^2 \cdot (\text{A} - \text{B})^2 - \text{E} \cdot (\text{C} + \text{D}) \cdot (\text{A} - \text{B})}}{2 \cdot \text{A} \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E})} = 0.265928$$

$$\text{Num} := \frac{\sqrt{4 \cdot \text{A}^2 \cdot \text{C} \cdot \text{F} \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E}) + \text{E}^2 \cdot (\text{C} + \text{D})^2 \cdot (\text{A} - \text{B})^2 - \text{E} \cdot (\text{C} + \text{D}) \cdot (\text{A} - \text{B})}}{\sqrt{\left[\sqrt{4 \cdot \text{A}^2 \cdot \text{C} \cdot \text{F} \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E}) + \text{E}^2 \cdot (\text{C} + \text{D})^2 \cdot (\text{A} - \text{B})^2 - \text{E} \cdot (\text{C} + \text{D}) \cdot (\text{A} - \text{B})}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot \text{A} \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E})}{\sqrt{[2 \cdot \text{A} \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E})]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad \text{L} = 1$$

$$\text{L} - \frac{\sqrt{\text{A}^2 \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E})^2 \cdot \left[\sqrt{\text{E}^2 \cdot (\text{C} + \text{D})^2 \cdot (\text{A} - \text{B})^2 + 4 \cdot \text{A}^2 \cdot \text{C} \cdot \text{F} \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E}) - \text{E} \cdot (\text{C} + \text{D}) \cdot (\text{A} - \text{B})}\right]}}{\text{A} \cdot \sqrt{\left[\sqrt{\text{E}^2 \cdot (\text{C} + \text{D})^2 \cdot (\text{A} - \text{B})^2 + 4 \cdot \text{A}^2 \cdot \text{C} \cdot \text{F} \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E}) - \text{E} \cdot (\text{C} + \text{D}) \cdot (\text{A} - \text{B})}\right]^2} \cdot (\text{C} \cdot \text{E} - \text{C} \cdot \text{F} + \text{D} \cdot \text{E})}} = 0$$



$N_1 = 1.03379$ $N_3 = 2.45264$ $N_5 = 1.49161$ $N_7 = 0.80392$
 $N_2 = 1.94425$ $N_4 = 1.22018$ $N_6 = 2.78951$ $R = 0.31762$

Unit. $AB := 1$ Given. $N_1 := 1.03379$ $N_2 := 1.94425$ $N_3 := 2.45264$ $N_4 := 1.22018$

$N_5 := 1.49161$ $N_6 := 2.78951$ $N_7 := .80392$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4} \quad E := \frac{N_u}{N_5} \quad F := \frac{N_u}{N_6} \quad G := \frac{N_u}{N_7}$$

Descriptions.

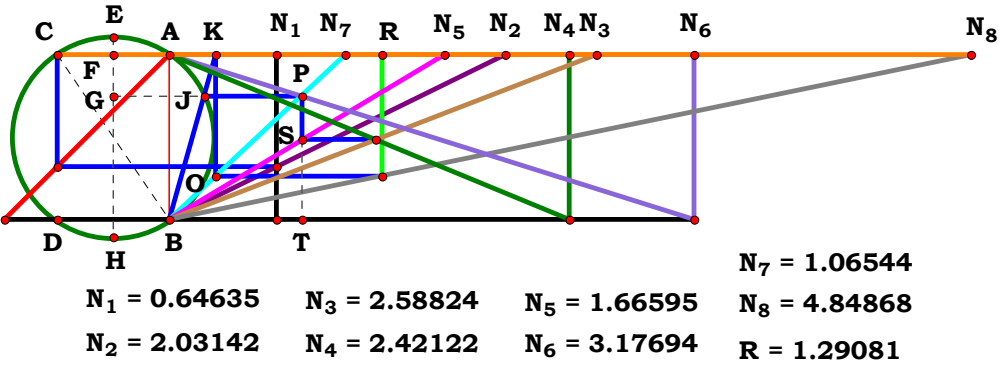
$$\frac{N_u \cdot (C \cdot E - C \cdot F + D \cdot E) \cdot [A \cdot E \cdot G \cdot (C + D) - N_u \cdot (A - B) \cdot (C \cdot E - C \cdot F + D \cdot E)]}{A \cdot [N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2]} = 0.317619$$

$$Num := \frac{N_u \cdot (C \cdot E - C \cdot F + D \cdot E) \cdot [A \cdot E \cdot G \cdot (C + D) - N_u \cdot (A - B) \cdot (C \cdot E - C \cdot F + D \cdot E)]}{\sqrt{[N_u \cdot (C \cdot E - C \cdot F + D \cdot E) \cdot [A \cdot E \cdot G \cdot (C + D) - N_u \cdot (A - B) \cdot (C \cdot E - C \cdot F + D \cdot E)]]^2}}$$

$$Den := \frac{A \cdot [N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2]}{\sqrt{[A \cdot [N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2]]^2}} \quad L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u \cdot [A \cdot E \cdot G \cdot (C + D) - N_u \cdot (A - B) \cdot (C \cdot E - C \cdot F + D \cdot E)] \cdot \sqrt{A^2 \cdot [N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2]^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}}{A \cdot [N_u^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2 + E^2 \cdot G^2 \cdot (C + D)^2] \cdot \sqrt{N_u^2 \cdot [A \cdot E \cdot G \cdot (C + D) - N_u \cdot (A - B) \cdot (C \cdot E - C \cdot F + D \cdot E)]^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2}} = 0$$



Unit.
 $AB := 1$
Given.
 $N_1 := .64635$
 $N_2 := 2.03142$
 $N_3 := 2.58824$
 $N_4 := 2.42122$
 $N_5 := 1.66595$
 $N_6 := 3.17694$
 $N_7 := 1.06544$
 $N_8 := 4.84868$

$N_u := 3$
 $A := \frac{N_u}{N_1}$
 $B := \frac{N_u}{N_2}$
 $C := \frac{N_u}{N_3}$
 $D := \frac{N_u}{N_4}$
 $E := \frac{N_u}{N_5}$
 $F := \frac{N_u}{N_6}$
 $G := \frac{N_u}{N_7}$
 $H := \frac{N_u}{N_8}$

Descriptions.

$$\frac{G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 + 4 \cdot E \cdot A^2 \cdot C \cdot F \cdot (C + D) - 4 \cdot A^2 \cdot C^2 \cdot F^2} - E \cdot (C + D) \cdot (A - B) \right]}{2 \cdot A \cdot H \cdot (C \cdot E - C \cdot F + D \cdot E)} = 1.290805$$

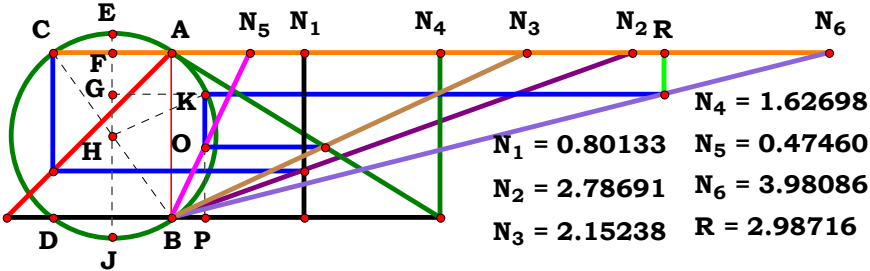
$$Num := \frac{G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 + 4 \cdot E \cdot A^2 \cdot C \cdot F \cdot (C + D) - 4 \cdot A^2 \cdot C^2 \cdot F^2} - E \cdot (C + D) \cdot (A - B) \right]}{\sqrt{\left[G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 + 4 \cdot E \cdot A^2 \cdot C \cdot F \cdot (C + D) - 4 \cdot A^2 \cdot C^2 \cdot F^2} - E \cdot (C + D) \cdot (A - B) \right] \right]^2}}$$

$$Den := \frac{2 \cdot A \cdot H \cdot (C \cdot E - C \cdot F + D \cdot E)}{\sqrt{\left[2 \cdot A \cdot H \cdot (C \cdot E - C \cdot F + D \cdot E) \right]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$
 $Den = 1$
 $L = 1$

$$L - \frac{G \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot A^2 \cdot C^2 \cdot F^2 + 4 \cdot A^2 \cdot C \cdot E \cdot F \cdot (C + D) - E \cdot (C + D) \cdot (A - B)} \right] \cdot \sqrt{A^2 \cdot H^2 \cdot (C \cdot E - C \cdot F + D \cdot E)^2}}{A \cdot H \cdot \sqrt{G^2 \cdot \left[\sqrt{E^2 \cdot (C + D)^2 \cdot (A - B)^2 - 4 \cdot A^2 \cdot C^2 \cdot F^2 + 4 \cdot A^2 \cdot C \cdot E \cdot F \cdot (C + D) - E \cdot (C + D) \cdot (A - B)} \right]^2 \cdot (C \cdot E - C \cdot F + D \cdot E)}} = 0$$



Unit.
AB := 1
Given.
N₁ := .80133
N₂ := 2.78691
N₃ := 2.15238
N₄ := 1.62698
N₅ := .47460
N₆ := 3.98086

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

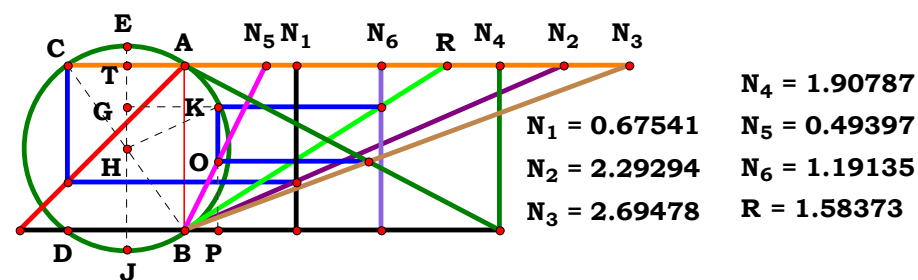
$$\frac{\sqrt{N_u} \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B) \right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2 \right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]}{2 \cdot F \cdot (C + D) \cdot \sqrt{A \cdot B \cdot E}} = 2.987175$$

$$Num := \frac{\sqrt{N_u} \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B) \right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2 \right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right]}{\sqrt{\left[\sqrt{N_u} \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B) \right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2 \right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D) \right] \right]^2}}$$

$$Den := \frac{2 \cdot F \cdot (C + D) \cdot \sqrt{A \cdot B \cdot E}}{\sqrt{\left[2 \cdot F \cdot (C + D) \cdot \sqrt{A \cdot B \cdot E} \right]^2}} \quad L := \frac{Num}{Den}$$

Num = 1
Den = 1
L = 1

$$L - \frac{\sqrt{N_u} \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B) \right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2 \right] + E \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C + D) \right] \cdot \sqrt{A \cdot B \cdot E^2 \cdot F^2 \cdot (C + D)^2}}{E \cdot F \cdot \sqrt{A \cdot B} \cdot (C + D) \cdot \sqrt{N_u} \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B) \right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2 \right] + E \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C + D) \right]^2} = 0$$



Unit.
AB := 1
Given.
N₁ := .67541
N₂ := 2.29294
N₃ := 2.69478

N₄ := 1.90787
N₅ := .49397
N₆ := 1.19135

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$
E := $\frac{N_u}{N_5}$
F := $\frac{N_u}{N_6}$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (C + D) \cdot \sqrt{A \cdot B} \cdot E}{F \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B)\right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2\right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)\right]} = 1.583718$$

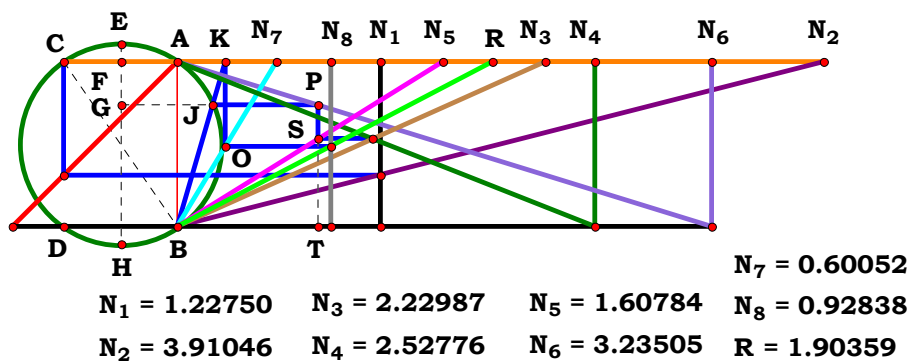
$$\text{Num} := \frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (C + D) \cdot \sqrt{A \cdot B} \cdot E}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (C + D) \cdot \sqrt{A \cdot B} \cdot E\right]^2}}$$

$$\text{Den} := \frac{F \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B)\right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2\right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)\right]}{\sqrt{\left[F \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B)\right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2\right] + \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot E \cdot (C + D)\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1
Den = 1
L = 1

$$L - \frac{E \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} \cdot (C + D) \cdot \sqrt{F^2 \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B)\right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2\right] + E \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C + D)\right]^2}}{F \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[E \cdot \left[A \cdot E \cdot (C + D) - 4 \cdot C \cdot N_u \cdot (A - B)\right] \cdot (C + D) - 4 \cdot A \cdot C^2 \cdot N_u^2\right] + E \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C + D)\right] \cdot \sqrt{A \cdot B \cdot E^2 \cdot N_u^3 \cdot (C + D)^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 1.22750$ $N_2 := 3.91046$ $N_3 := 2.22987$ $N_4 := 2.52776$
 $N_5 := 1.60784$ $N_6 := 3.23505$ $N_7 := .60052$ $N_8 := .92838$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$ $H := \frac{N_u}{N_8}$

Descriptions.

$$\frac{2 \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})}{\mathbf{G} \cdot \mathbf{H} \cdot \left[\sqrt{\mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}]} - \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B}) \right]} = 1.903602$$

$$\text{Num} := \frac{2 \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})}{\sqrt{\left[2 \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E}) \right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{G} \cdot \mathbf{H} \cdot \left[\sqrt{\mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}]} - \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B}) \right]}{\sqrt{\left[\mathbf{G} \cdot \mathbf{H} \cdot \left[\sqrt{\mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{C} \cdot (\mathbf{E} - \mathbf{F}) + \mathbf{D} \cdot \mathbf{E}]} - \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B}) \right] \right]^2}}$$

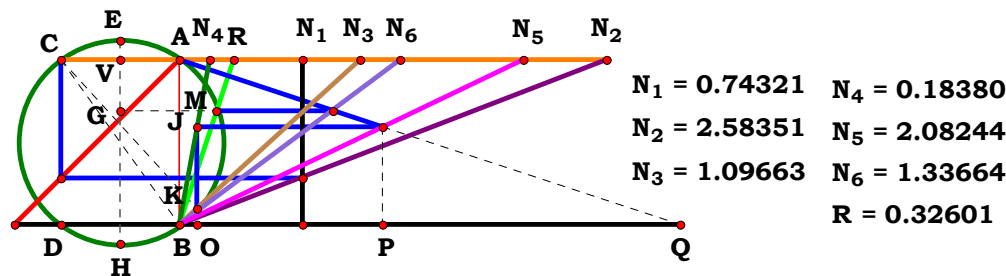
$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot \sqrt{\mathbf{G}^2 \cdot \mathbf{H}^2 \cdot [\sqrt{\mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})]} - \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B})]^2 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})}}{\mathbf{G} \cdot \mathbf{H} \cdot [\sqrt{\mathbf{E}^2 \cdot (\mathbf{C} + \mathbf{D})^2 \cdot (\mathbf{A} - \mathbf{B})^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{F} \cdot [\mathbf{D} \cdot \mathbf{E} + \mathbf{C} \cdot (\mathbf{E} - \mathbf{F})]} - \mathbf{E} \cdot (\mathbf{C} + \mathbf{D}) \cdot (\mathbf{A} - \mathbf{B})] \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 \cdot (\mathbf{C} \cdot \mathbf{E} - \mathbf{C} \cdot \mathbf{F} + \mathbf{D} \cdot \mathbf{E})^2}} = 0$$



Unit.
AB := 1
 Given.
N₁ := .74321 **N₃** := 1.09663
N₂ := 2.58351 **N₄** := .18380
N₅ := 2.08244 **N₆** := 1.33664



Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EH := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EH - AB}{2}$$

$$BN_3 := \sqrt{N_3^2 + AB^2} \quad CN_3 := N_3 + AC$$

$$KN_3 := \frac{N_3 \cdot CN_3}{BN_3}$$

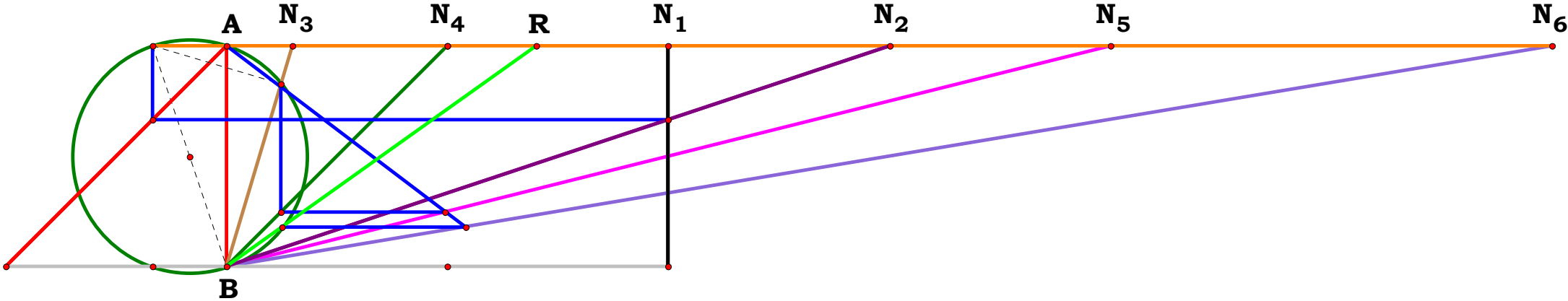
$$BO := \frac{N_3 \cdot (BN_3 - KN_3)}{BN_3}$$

$$JO := \frac{BO}{N_4} \quad BP := N_5 \cdot JO$$

$$BQ := \frac{BP \cdot AB}{AB - JO} \quad FG := \frac{N_6}{BQ + N_6}$$

$$EG := FG + EF \quad GM := \sqrt{EG \cdot (EH - EG)}$$

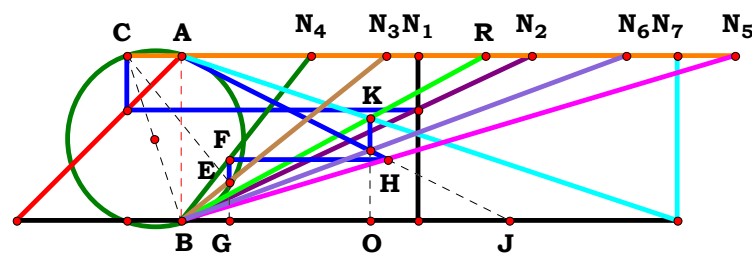
$$R := \frac{GM - AF}{AB - FG} \quad R = 0.32601$$



N₁ = 2.00000 **N₄** = 1.00000 **AB** = 1.00000 **EF** = 0.02705 **BO** = 0.24771 **FG** = 0.82000
N₂ = 3.00000 **N₅** = 4.00000 **AC** = 0.33333 **BN₃** = 1.04403 **JO** = 0.24771 **EG** = 0.84705
N₃ = 0.30000 **N₆** = 6.00000 **EH** = 1.05409 **CN₃** = 0.63333 **BP** = 0.99083 **GM** = 0.41878
R = 1.40064 **AF** = 0.16667 **KN₃** = 0.18199 **BQ** = 1.31707 **R - (GM - AF) / (AB - FG) = 0.00000**

Definitions.

$$R - \frac{\sqrt{N_6^2 \cdot (N_1 - N_2)^2 \cdot [N_3^2 \cdot (N_1 - N_2 - N_2 \cdot N_4) + N_2 \cdot (N_3 - N_4)]^2 + N_3^2 \cdot N_5^2 \cdot (N_1 - N_2)^2 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)^2} \dots \dots + (-2 \cdot N_3 \cdot N_5 \cdot N_6 \cdot (N_1^2 - 2 \cdot N_1 \cdot N_2 + 3 \cdot N_2^2) \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3) \cdot [N_3^2 \cdot (N_1 - N_2 - N_2 \cdot N_4) + N_2 \cdot (N_3 - N_4)] + (N_1 - N_2) \cdot [(N_1 - N_2) \cdot (N_5 - N_6) \cdot N_3^2 + N_2 \cdot [N_6 \cdot (N_3^2 \cdot N_4 - N_3 + N_4) + N_3 \cdot N_5]]}{2 \cdot N_2 \cdot N_3 \cdot N_5 \cdot (N_2 + N_1 \cdot N_3 - N_2 \cdot N_3)} = 0$$



N₁ = 1.43090 N₃ = 1.24192 N₅ = 3.35128 N₇ = 3.00259
N₂ = 2.11859 N₄ = 0.78432 N₆ = 2.69265 R = 1.84291

Unit. AB := 1 Given. $N_1 := 1.43090$ $N_2 := 2.11859$ $N_3 := 1.24192$ $N_4 := .78432$
 $N_5 := 3.35128$ $N_6 := 2.69265$ $N_7 := 3.00259$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$ $G := \frac{N_u}{N_7}$

Descriptions.

$$\frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{D}) \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D})] + \mathbf{D} \cdot (\mathbf{F} - \mathbf{G}) \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})} = 1.842898$$

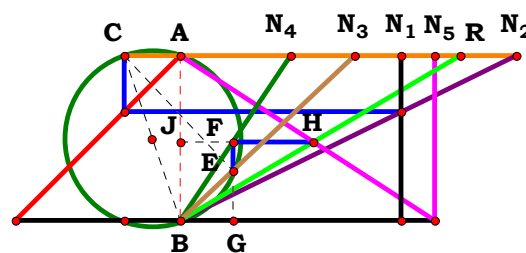
$$\mathbf{Num} := \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{[\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]^2}}$$

$$\text{Den} := \frac{\mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{D}) \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D})] + \mathbf{D} \cdot (\mathbf{F} - \mathbf{G}) \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{[\mathbf{E} \cdot [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{D}) \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D})] + \mathbf{D} \cdot (\mathbf{F} - \mathbf{G}) \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{E} \cdot \left[\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{D}) \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) \right] + \mathbf{D} \cdot (\mathbf{F} - \mathbf{G}) \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) \right]^2} \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\left[\mathbf{E} \cdot \left[\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + (\mathbf{A} \cdot \mathbf{D} - \mathbf{B} \cdot \mathbf{D}) \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{C} - \mathbf{D}) \right] + \mathbf{D} \cdot (\mathbf{F} - \mathbf{G}) \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}) \right] \cdot \sqrt{\mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} \cdot \mathbf{C} - \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2}} = 0$$



N₁ = 1.33405
N₂ = 2.03142
N₃ = 1.05789
N₄ = 0.66809
N₅ = 1.54004
R = 1.69633

Unit. **AB := 1** **Given.** **$N_1 := 1.33405$** **$N_2 := 2.03142$** **$N_3 := 1.05789$**
 $N_4 := .66809$ **$N_5 := 1.54004$**
 $N_u := 3$ **$A := \frac{N_u}{N_1}$** **$B := \frac{N_u}{N_2}$** **$C := \frac{N_u}{N_3}$** **$D := \frac{N_u}{N_4}$** **$E := \frac{N_u}{N_5}$**

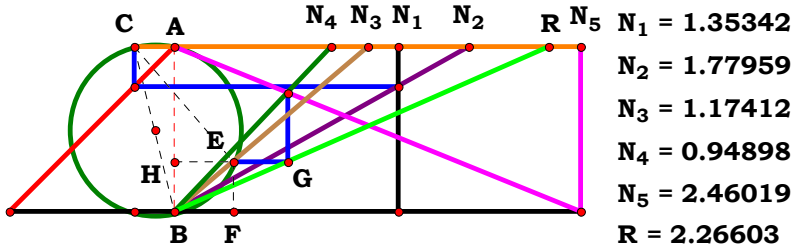
Descriptions.

$$\frac{N_u \cdot [A \cdot C^2 + A \cdot N_u^2 - A \cdot C \cdot D + D \cdot N_u \cdot (A - B)]}{A \cdot C \cdot D \cdot E - D \cdot E \cdot N_u \cdot (A - B)} = 1.696324 \quad \text{Num} := \frac{N_u \cdot [A \cdot C^2 + A \cdot N_u^2 - A \cdot C \cdot D + D \cdot N_u \cdot (A - B)]}{\sqrt{[N_u \cdot [A \cdot C^2 + A \cdot N_u^2 - A \cdot C \cdot D + D \cdot N_u \cdot (A - B)]]^2}}$$

$$\text{Den} := \frac{\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} - \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})}{\sqrt{[\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} - \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{[\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} - \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]^2} \cdot [\mathbf{A} \cdot \mathbf{C}^2 - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}]}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot [\mathbf{A} \cdot \mathbf{C}^2 - \mathbf{A} \cdot \mathbf{D} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{D} \cdot (\mathbf{A} - \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}]^2} \cdot [\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{D} \cdot \mathbf{E} - \mathbf{D} \cdot \mathbf{E} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.35342$ $N_2 := 1.77959$ $N_3 := 1.17412$
 $N_4 := .94898$ $N_5 := 2.46019$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$

Descriptions.

$$\frac{A \cdot N_u \cdot (C^2 + N_u^2)}{C \cdot (D + E) \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)} = 2.266037$$

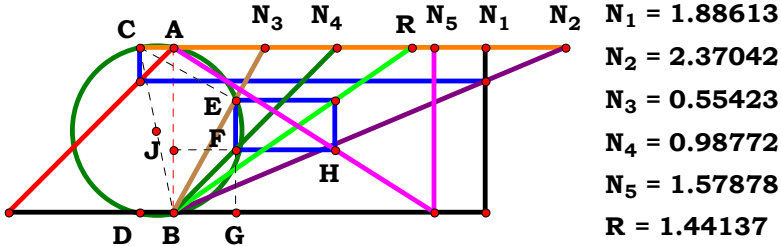
$$Num := \frac{A \cdot N_u \cdot (C^2 + N_u^2)}{\sqrt{\left[A \cdot N_u \cdot (C^2 + N_u^2)\right]^2}}$$

$$Den := \frac{C \cdot (D + E) \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)}{\sqrt{\left[C \cdot (D + E) \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)\right]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A \cdot N_u \cdot (C^2 + N_u^2) \cdot \sqrt{C^2 \cdot (D + E)^2 \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)^2}}{C \cdot (D + E) \cdot \sqrt{A^2 \cdot N_u^2 \cdot (C^2 + N_u^2)^2 \cdot (A \cdot C - A \cdot N_u + B \cdot N_u)}} = 0$$



Unit.
AB
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Given.
N1
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1.88613
N2
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2.37042
N3
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.55423
N4
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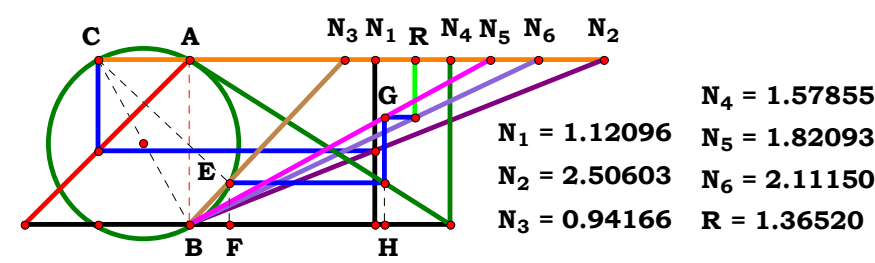
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0



Unit. $AB := 1$ Given. $N_1 := 1.12096$ $N_2 := 2.50603$ $N_3 := .94166$

$N_4 := 1.57855$ $N_5 := 1.82093$ $N_6 := 2.11150$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

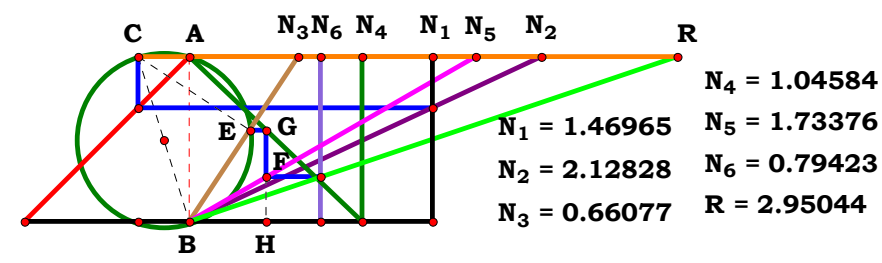
$$\frac{E \cdot N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]}{F \cdot [A \cdot D \cdot (C^2 + N_u^2)]} = 1.365198$$

$$Num := \frac{E \cdot N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]}{\sqrt{[E \cdot N_u^2 \cdot [C \cdot (A - B) + A \cdot N_u]]^2}}$$

$$Den := \frac{F \cdot [A \cdot D \cdot (C^2 + N_u^2)]}{\sqrt{[F \cdot [A \cdot D \cdot (C^2 + N_u^2)]]^2}} \quad L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{E \cdot N_u^2 \cdot [A \cdot N_u + C \cdot (A - B)] \cdot \sqrt{A^2 \cdot D^2 \cdot F^2 \cdot (C^2 + N_u^2)^2}}{A \cdot D \cdot F \cdot (C^2 + N_u^2) \cdot \sqrt{E^2 \cdot N_u^4 \cdot [A \cdot N_u + C \cdot (A - B)]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.46965$ $N_2 := 2.12828$ $N_3 := .66077$
 $N_4 := 1.04584$ $N_5 := 1.73376$ $N_6 := .79423$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$ $E := \frac{N_u}{N_5}$ $F := \frac{N_u}{N_6}$

Descriptions.

$$\frac{A \cdot D \cdot (C^2 + N_u^2)}{A \cdot E \cdot F \cdot N_u + C \cdot E \cdot F \cdot (A - B)} = 2.950417$$

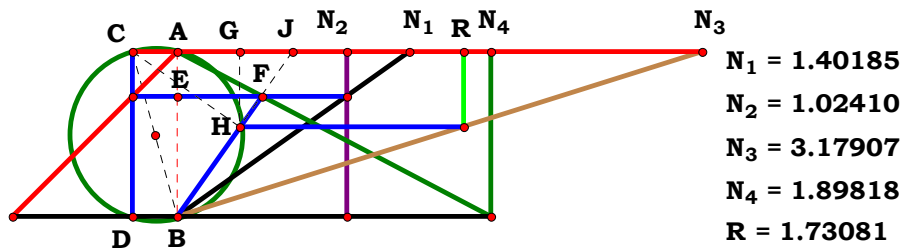
$$Num := \frac{A \cdot D \cdot (C^2 + N_u^2)}{\sqrt{[A \cdot D \cdot (C^2 + N_u^2)]^2}}$$

$$Den := \frac{A \cdot E \cdot F \cdot N_u + C \cdot E \cdot F \cdot (A - B)}{\sqrt{[A \cdot E \cdot F \cdot N_u + C \cdot E \cdot F \cdot (A - B)]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{A \cdot D \cdot (C^2 + N_u^2) \cdot \sqrt{[A \cdot E \cdot F \cdot N_u + C \cdot E \cdot F \cdot (A - B)]^2}}{[A \cdot E \cdot F \cdot N_u + C \cdot E \cdot F \cdot (A - B)] \cdot \sqrt{A^2 \cdot D^2 \cdot (C^2 + N_u^2)^2}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.40185 \quad N_2 := 1.02410 \quad N_3 := 3.17907$$

$$N_4 := 1.89818$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

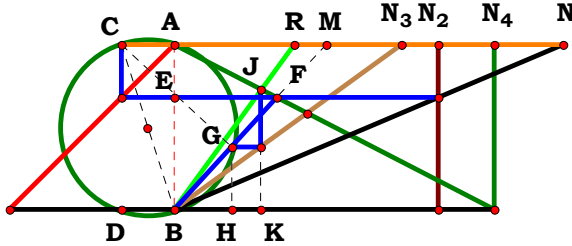
Descriptions.

$$\frac{A \cdot D \cdot N_u \cdot \left[A \cdot B \cdot (D + 2 \cdot N_u) - N_u \cdot (A^2 + B^2) \right]}{B \cdot C \cdot \left[A^2 \cdot (D^2 + N_u^2) - B \cdot N_u^2 \cdot (2 \cdot A - B) \right]} = 1.730791 \quad \text{Num} := \frac{A \cdot D \cdot N_u \cdot \left[A \cdot B \cdot (D + 2 \cdot N_u) - N_u \cdot (A^2 + B^2) \right]}{\sqrt{\left[A \cdot D \cdot N_u \cdot \left[A \cdot B \cdot (D + 2 \cdot N_u) - N_u \cdot (A^2 + B^2) \right] \right]^2}}$$

$$\text{Den} := \frac{B \cdot C \cdot \left[A^2 \cdot (D^2 + N_u^2) - B \cdot N_u^2 \cdot (2 \cdot A - B) \right]}{\sqrt{\left[B \cdot C \cdot \left[A^2 \cdot (D^2 + N_u^2) - B \cdot N_u^2 \cdot (2 \cdot A - B) \right] \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{A \cdot D \cdot N_u \cdot \left[A \cdot B \cdot (D + 2 \cdot N_u) - N_u \cdot (A^2 + B^2) \right] \cdot \sqrt{B^2 \cdot C^2 \cdot \left[A^2 \cdot (D^2 + N_u^2) + B \cdot N_u^2 \cdot (B - 2 \cdot A) \right]^2}}{B \cdot C \cdot \left[A^2 \cdot (D^2 + N_u^2) + B \cdot N_u^2 \cdot (B - 2 \cdot A) \right] \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2 \cdot \left[A \cdot B \cdot (D + 2 \cdot N_u) - N_u \cdot (A^2 + B^2) \right]^2}} = 0$$



$N_1 = 2.35105$
 $N_2 = 1.59556$
 $N_3 = 1.37752$
 $N_4 = 1.93693$
 $R = 0.72529$

Unit. $AB := 1$ Given. $N_1 := 2.35105$ $N_2 := 1.59556$ $N_3 := 1.37752$

$N_4 := 1.93693$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{A \cdot D \cdot N_u \cdot \left[A \cdot B \cdot D - N_u \cdot (A - B)^2 \right]}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 + N_u \cdot A \cdot D^2 \cdot (A - B)^2 + A^2 \cdot B \cdot D^2 \cdot (C - D)} = \mathbf{0.725292}$$

$$\mathbf{Num} := \frac{A \cdot D \cdot N_u \cdot \left[A \cdot B \cdot D - N_u \cdot (A - B)^2 \right]}{\sqrt{\left[A \cdot D \cdot N_u \cdot \left[A \cdot B \cdot D - N_u \cdot (A - B)^2 \right] \right]^2}}$$

$$\mathbf{Den} := \frac{N_u^2 \cdot B \cdot C \cdot (A - B)^2 + N_u \cdot A \cdot D^2 \cdot (A - B)^2 + A^2 \cdot B \cdot D^2 \cdot (C - D)}{\sqrt{\left[N_u^2 \cdot B \cdot C \cdot (A - B)^2 + N_u \cdot A \cdot D^2 \cdot (A - B)^2 + A^2 \cdot B \cdot D^2 \cdot (C - D) \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

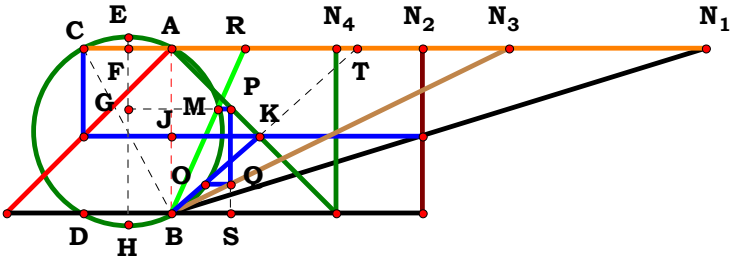
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{A \cdot D \cdot N_u \cdot \sqrt{\left[A^2 \cdot B \cdot D^2 \cdot (C - D) + A \cdot D^2 \cdot N_u \cdot (A - B)^2 + B \cdot C \cdot N_u^2 \cdot (A - B)^2 \right]^2} \cdot \left[A \cdot B \cdot D - N_u \cdot (A - B)^2 \right]}{\left[A^2 \cdot B \cdot D^2 \cdot (C - D) + A \cdot D^2 \cdot N_u \cdot (A - B)^2 + B \cdot C \cdot N_u^2 \cdot (A - B)^2 \right] \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2 \cdot \left[A \cdot B \cdot D - N_u \cdot (A - B)^2 \right]^2}} = \mathbf{0}$$



Unit.
 AB := 1
 Given.
 N₁ := 3.23246

N₂ := 1.51808
 N₃ := 2.04584
 N₄ := .99741



N₁ = 3.23246
 N₂ = 1.51808
 N₃ = 2.04584
 N₄ = 0.99741
 R = 0.44685

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad AJ := \frac{N_1 - N_2}{N_1}$$

$$JK := N_4 \cdot AJ \quad AT := \frac{JK}{AB - AJ}$$

$$EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad BT := \sqrt{AB^2 + AT^2}$$

$$CT := AT + AC \quad OT := \frac{CT \cdot AT}{BT}$$

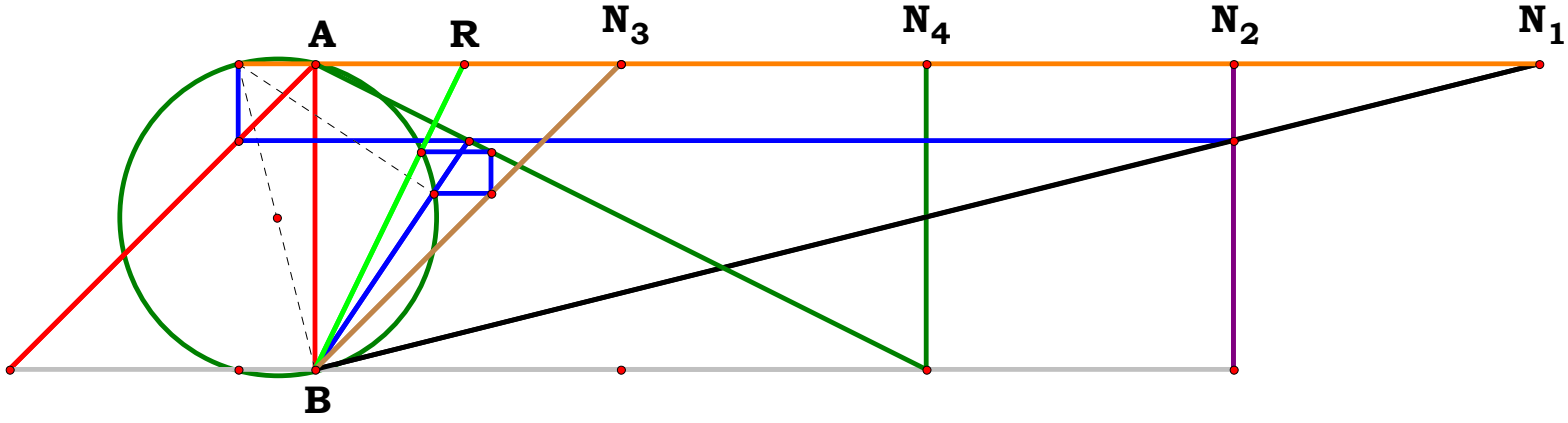
$$BO := BT - OT \quad OS := \frac{BO}{BT}$$

$$BS := N_3 \cdot OS \quad PS := \frac{N_4 - BS}{N_4}$$

$$GH := PS + EF \quad GM := \sqrt{GH \cdot (EH - GH)}$$

$$R := \frac{GM - AF}{PS} \quad R = 0.446856$$

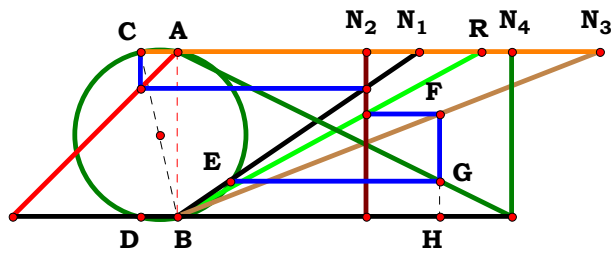
Definitions.



N ₁ = 4.00000	AB = 1.00000	EH = 1.03078	OT = 0.50848	GH = 0.72693
N ₂ = 3.00000	AC = 0.25000	AF = 0.12500	BO = 0.69338	GM = 0.46997
N ₃ = 1.00000	AJ = 0.25000	EF = 0.01539	OS = 0.57692	R - $\frac{GM - AF}{PS}$ = 0.00000
N ₄ = 2.00000	JK = 0.50000	BT = 1.20185	BS = 0.57692	
R = 0.48483	AT = 0.66667	CT = 0.91667	PS = 0.71154	

$$R - \frac{N_4 \cdot \left[\sqrt{N_4^6 \cdot (N_1 - N_2)^6 - 4 \cdot N_1^2 \cdot N_2^4 \cdot N_3^2 + N_2^2 \cdot N_4^2 \cdot (N_1 - N_2)^2 \cdot \left[4 \cdot N_2 \cdot N_3 \cdot (2 \cdot N_1 \cdot N_3 - N_1 - N_2 \cdot N_3) - 4 \cdot N_1^2 \cdot N_3 \cdot (N_3 - N_4) + N_2^2 \right] \dots \dots} \cdot \left[N_4^2 \cdot (N_1 - N_2)^2 + N_2^2 \right] \right.}{\left. + 2 \cdot N_2 \cdot N_4^4 \cdot (N_2 - 2 \cdot N_1 \cdot N_3) \cdot (N_1 - N_2)^4 + 4 \cdot N_1 \cdot N_2^3 \cdot N_3 \cdot N_4 \cdot (2 \cdot N_1^2 \cdot N_3 + 2 \cdot N_2^2 \cdot N_3 + N_1 \cdot N_2 - 4 \cdot N_1 \cdot N_2 \cdot N_3) \right.} = 0$$

$$2 \cdot \sqrt{N_4^2 \cdot (N_1^2 \cdot N_4^2 - 2 \cdot N_1 \cdot N_2 \cdot N_4^2 + N_2^2 \cdot N_4^2 + N_2^2)^2 \cdot (N_1 - N_2)} \cdot \left[N_1 \cdot (N_1^2 \cdot N_4^3 + N_2^2 \cdot N_4 - N_3 \cdot N_2^2) + N_2^2 \cdot N_4 \cdot (N_1 \cdot N_4^2 + N_2 \cdot N_3) + N_1 \cdot N_2 \cdot N_4 \cdot (N_1 \cdot N_3 - 2 \cdot N_2 \cdot N_3 - 2 \cdot N_1 \cdot N_4^2) \right]$$



$N_1 = 1.45996$
 $N_2 = 1.14033$
 $N_3 = 2.55918$
 $N_4 = 2.02410$
 $R = 1.84199$

Unit. $AB := 1$ Given. $N_1 := 1.45996$ $N_2 := 1.14033$ $N_3 := 2.55918$

$N_4 := 2.0241$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{D \cdot (A^2 + N_u^2)}{B \cdot C \cdot A - C \cdot A^2 + B \cdot C \cdot N_u} = 1.841985$$

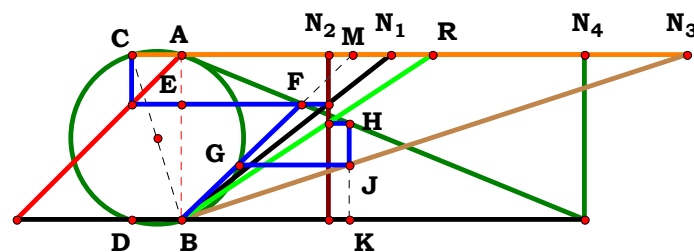
$$Num := \frac{D \cdot (A^2 + N_u^2)}{\sqrt{\left[D \cdot (A^2 + N_u^2)\right]^2}}$$

$$Den := \frac{B \cdot C \cdot A - C \cdot A^2 + B \cdot C \cdot N_u}{\sqrt{\left(B \cdot C \cdot A - C \cdot A^2 + B \cdot C \cdot N_u\right)^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$L - \frac{D \cdot \sqrt{\left(B \cdot C \cdot A - C \cdot A^2 + B \cdot C \cdot N_u\right)^2} \cdot (A^2 + N_u^2)}{\sqrt{D^2 \cdot (A^2 + N_u^2)^2} \cdot (B \cdot C \cdot A - C \cdot A^2 + B \cdot C \cdot N_u)} = 0$



N₁ = 1.26624
N₂ = 0.88850
N₃ = 3.06284
N₄ = 2.44059
R = 1.52469

Unit. AB := 1 Given. $N_1 := 1.26624$ $N_2 := .88850$ $N_3 := 3.06284$

$$N_4 := 2.44059$$

$$\mathbf{N}_u := 3 \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2} \quad \mathbf{C} := \frac{\mathbf{N}_u}{\mathbf{N}_3} \quad \mathbf{D} := \frac{\mathbf{N}_u}{\mathbf{N}_4}$$

Descriptions.

$$\frac{N_u^3 \cdot C \cdot (A - B)^2 + A^2 \cdot C \cdot D^2 \cdot N_u}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 + N_u \cdot A \cdot D^2 \cdot (A - B)^2 + A^2 \cdot B \cdot D^2 \cdot (C - D)} = 1.524717$$

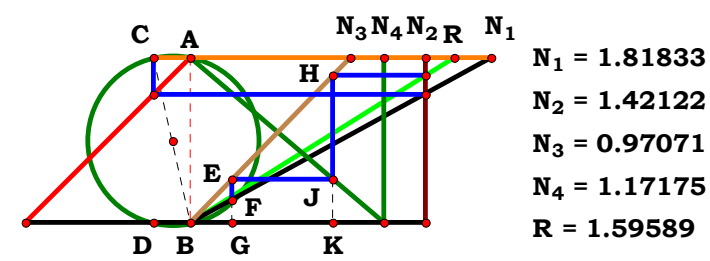
$$\text{Num} := \frac{\mathbf{N_u}^3 \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 \cdot \mathbf{N_u}}{\sqrt{[\mathbf{N_u}^3 \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 \cdot \mathbf{N_u}]^2}}$$

$$\text{Den} := \frac{\mathbf{N_u}^2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{N_u} \cdot \mathbf{A} \cdot \mathbf{D}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{D})}{\sqrt{\left[\mathbf{N_u}^2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{N_u} \cdot \mathbf{A} \cdot \mathbf{D}^2 \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{D}) \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\left[\mathbf{A}^2 \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{A} \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})^2 \right]^2} \cdot \left[\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}} \right]}{\sqrt{\left[\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}} \right]^2} \cdot \left[\mathbf{A}^2 \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{A} \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{B})^2 \right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.81833$ $N_2 := 1.42122$ $N_3 := .97071$
 $N_4 := 1.17175$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{D \cdot N_u \cdot (A^2 + N_u^2)}{B \cdot C \cdot N_u^2 - N_u \cdot C^2 \cdot (A - B) + A \cdot B \cdot C \cdot (A - C)} = 1.595902$$

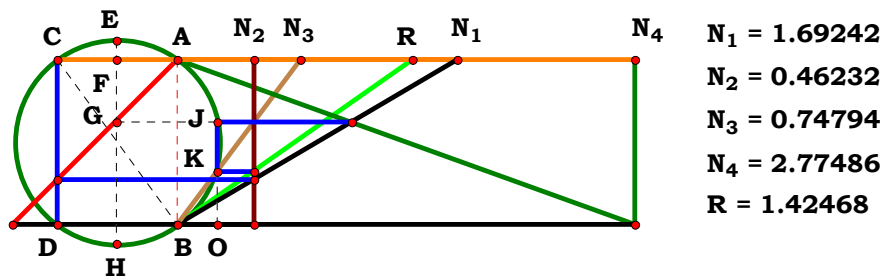
$$\text{Num} := \frac{D \cdot N_u \cdot (A^2 + N_u^2)}{\sqrt{[D \cdot N_u \cdot (A^2 + N_u^2)]^2}}$$

$$\text{Den} := \frac{B \cdot C \cdot N_u^2 - N_u \cdot C^2 \cdot (A - B) + A \cdot B \cdot C \cdot (A - C)}{\sqrt{[B \cdot C \cdot N_u^2 - N_u \cdot C^2 \cdot (A - B) + A \cdot B \cdot C \cdot (A - C)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{D \cdot N_u \cdot (A^2 + N_u^2) \cdot \sqrt{[B \cdot C \cdot N_u^2 - C^2 \cdot N_u \cdot (A - B) + A \cdot B \cdot C \cdot (A - C)]^2}}{[B \cdot C \cdot N_u^2 - C^2 \cdot N_u \cdot (A - B) + A \cdot B \cdot C \cdot (A - C)] \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.69242$ $N_2 := .46232$ $N_3 := .74794$
 $N_4 := 2.77486$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

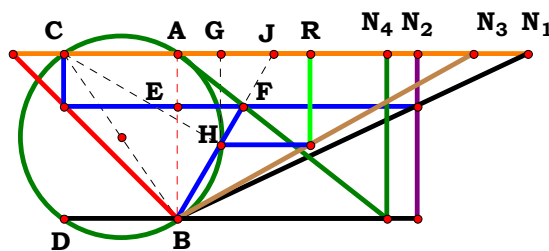
$$\frac{2 \cdot N_u^2 \cdot (A + D)}{C \cdot \left[A^2 - A \cdot B + A \cdot D - B \cdot D + \sqrt{(A^2 + D^2) \cdot (A - B)^2 + 2 \cdot A \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right]} = 1.424669$$
$$\text{Den} := \frac{C \cdot \left[A^2 - A \cdot B + A \cdot D - B \cdot D + \sqrt{(A^2 + D^2) \cdot (A - B)^2 + 2 \cdot A \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right]}{\sqrt{\left[C \cdot \left[A^2 - A \cdot B + A \cdot D - B \cdot D + \sqrt{(A^2 + D^2) \cdot (A - B)^2 + 2 \cdot A \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right] \right]^2}}$$

$$\text{Num} := \frac{2 \cdot N_u^2 \cdot (A + D)}{\sqrt{\left[2 \cdot N_u^2 \cdot (A + D) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{N_u^2 \cdot (A + D) \cdot \sqrt{C^2 \cdot \left[A^2 - A \cdot B + A \cdot D - B \cdot D + \sqrt{(A^2 + D^2) \cdot (A - B)^2 + 2 \cdot A \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right]^2}}{C \cdot \sqrt{N_u^4 \cdot (A + D)^2 \cdot \left[A^2 - A \cdot B + A \cdot D - B \cdot D + \sqrt{(A^2 + D^2) \cdot (A - B)^2 + 2 \cdot A \cdot D \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} \right]}} = 0$$



N₁ = 2.11859
N₂ = 1.45027
N₃ = 1.79401
N₄ = 1.26861
R = 0.80198

Unit. $AB := 1$ **Given.** $N_1 := 2.11859$ $N_2 := 1.45027$ $N_3 := 1.79401$
 $N_4 := 1.26861$

$$\mathbf{N_u} := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)]}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 + A^2 \cdot B \cdot C \cdot D^2} = 0.801978$$

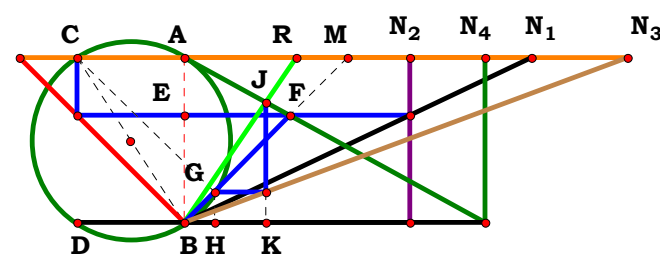
$$\text{Num} := \frac{A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)]}{\sqrt{[A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)]]^2}}$$

$$\text{Den} := \frac{N_u^2 \cdot B \cdot C \cdot (A - B)^2 + A^2 \cdot B \cdot C \cdot D^2}{\sqrt{[N_u^2 \cdot B \cdot C \cdot (A - B)^2 + A^2 \cdot B \cdot C \cdot D^2]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)] \cdot \sqrt{[B \cdot C \cdot N_u^2 \cdot (A - B)^2 + A^2 \cdot B \cdot C \cdot D^2]^2}}{[B \cdot C \cdot N_u^2 \cdot (A - B)^2 + A^2 \cdot B \cdot C \cdot D^2] \cdot \sqrt{A^4 \cdot D^2 \cdot N_u^2 \cdot [B \cdot D + N_u \cdot (A - B)]^2}} = 0$$



N₁ = 2.09922
N₂ = 1.36310
N₃ = 2.68510
N₄ = 1.82070
R = 0.67719

Unit. AB := 1 Given. N₁ := 2.09922 N₂ := 1.36310 N₃ := 2.68510
N₄ := 1.82070

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)]}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 - N_u \cdot A^2 \cdot D^2 \cdot (A - B) + A^2 \cdot B \cdot D^2 \cdot (C - D)} = 0.677186$$

$$\text{Den} := \frac{N_u^2 \cdot B \cdot C \cdot (A - B)^2 - N_u \cdot A^2 \cdot D^2 \cdot (A - B) + A^2 \cdot B \cdot D^2 \cdot (C - D)}{\sqrt{[N_u^2 \cdot B \cdot C \cdot (A - B)^2 - N_u \cdot A^2 \cdot D^2 \cdot (A - B) + A^2 \cdot B \cdot D^2 \cdot (C - D)]^2}}$$

$$\text{Num} := \frac{A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)]}{\sqrt{[A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)]]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

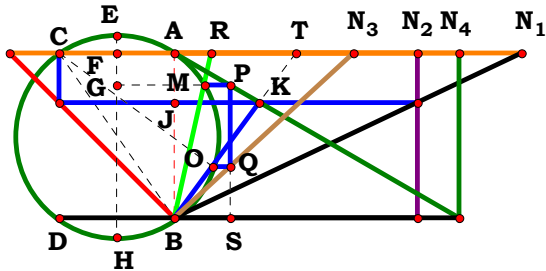
Num = 1 Den = 1 L = 1

$$L - \frac{A^2 \cdot D \cdot N_u \cdot [B \cdot D + N_u \cdot (A - B)] \cdot \sqrt{[A^2 \cdot B \cdot D^2 \cdot (C - D) + B \cdot C \cdot N_u^2 \cdot (A - B)^2 - A^2 \cdot D^2 \cdot N_u \cdot (A - B)]^2}}{[A^2 \cdot B \cdot D^2 \cdot (C - D) + B \cdot C \cdot N_u^2 \cdot (A - B)^2 - A^2 \cdot D^2 \cdot N_u \cdot (A - B)] \cdot \sqrt{A^4 \cdot D^2 \cdot N_u^2 \cdot [B \cdot D + N_u \cdot (A - B)]^2}} = 0$$



Unit.
 AB := 1
 Given.
 N₁ := 2.09922

N₂ := 1.46965
 N₃ := 1.08694
 N₄ := 1.72384



N₁ = 2.09922
 N₂ = 1.46965
 N₃ = 1.08694
 N₄ = 1.72384
 R = 0.22397

Descriptions.

$$AC := \frac{N_2}{N_1} \quad AJ := \frac{N_1 - N_2}{N_1}$$

$$JK := N_4 \cdot AJ \quad AT := \frac{JK}{AB - AJ}$$

$$EH := \sqrt{AB^2 + AC^2} \quad AF := \frac{AC}{2}$$

$$EF := \frac{EH - AB}{2} \quad BT := \sqrt{AB^2 + AT^2}$$

$$CT := AT + AC \quad OT := \frac{CT \cdot AT}{BT}$$

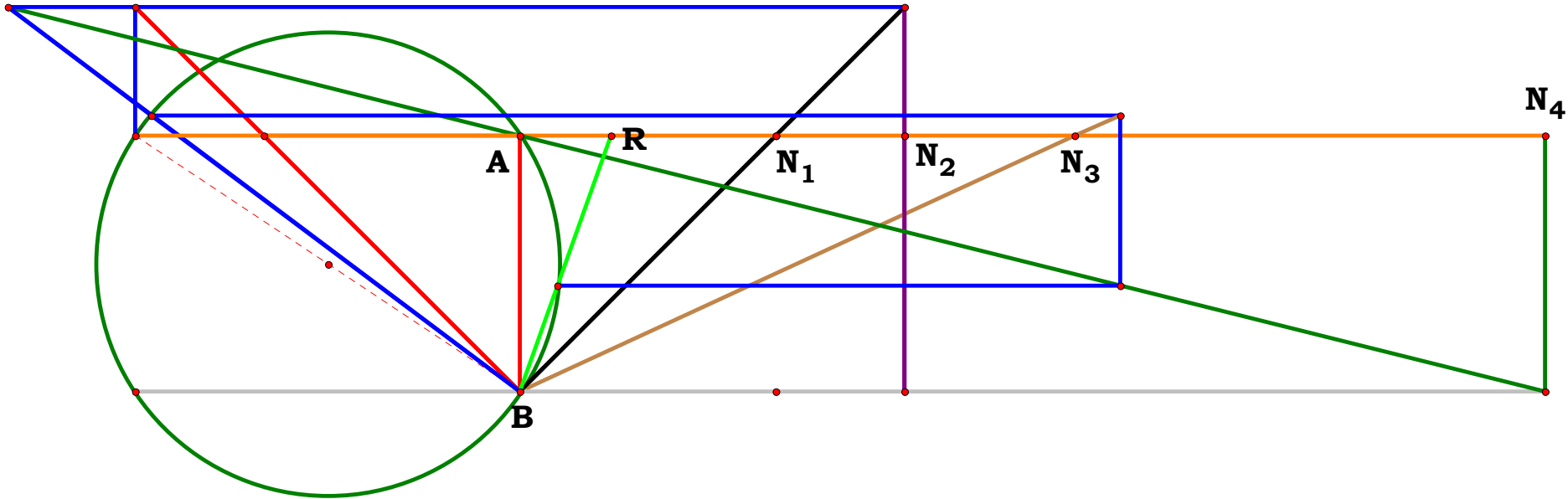
$$BO := BT - OT \quad OS := \frac{BO}{BT}$$

$$BS := N_3 \cdot OS \quad PS := \frac{N_4 - BS}{N_4}$$

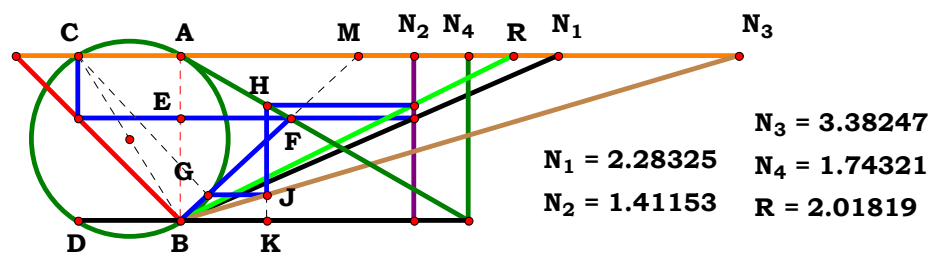
$$GH := PS + EF \quad GM := \sqrt{GH \cdot (EH - GH)}$$

$$R := \frac{GM - AF}{PS} \quad R = 0.223974$$

Definitions.



N ₁ = 1.00000	AC = 1.50000	AT = -1.33333	BT = 1.66667	OS = 1.08000	GM = 0.89735
N ₂ = 1.50000	AJ = -0.50000	EH = 1.80278	CT = 0.16667	BS = 2.34071	R- $\frac{GM-AF}{PS}$ = 0.00000
N ₃ = 2.16733	JK = -2.00000	AF = 0.75000	OT = -0.13333	PS = 0.41482	
N ₄ = 4.00000	AB = 1.00000	EF = 0.40139	BO = 1.80000	GH = 0.81621	
R = 0.35522					



Unit. AB := 1 Given. $N_1 := 2.28325$ $N_2 := 1.41153$ $N_3 := 3.38247$
 $N_4 := 1.74321$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{N_u^3 \cdot C \cdot (A - B)^2 + A^2 \cdot C \cdot D^2 \cdot N_u}{N_u^2 \cdot B \cdot C \cdot (A - B)^2 - N_u \cdot A^2 \cdot D^2 \cdot (A - B) + A^2 \cdot B \cdot D^2 \cdot (C - D)} = 2.01819$$

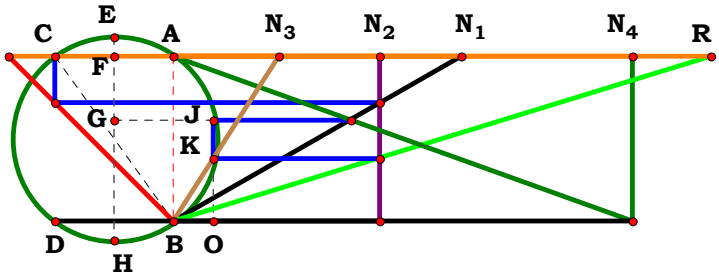
$$\text{Num} := \frac{\mathbf{N_u}^3 \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 \cdot \mathbf{N_u}}{\sqrt{[\mathbf{N_u}^3 \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 \cdot \mathbf{N_u}]^2}}$$

$$\text{Den} := \frac{\mathbf{N_u}^2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})^2 - \mathbf{N_u} \cdot \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A}^2 \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{D})}{\sqrt{\left[\mathbf{N_u}^2 \cdot \mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})^2 - \mathbf{N_u} \cdot \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A}^2 \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{D}) \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\left[\mathbf{A}^2 \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u^2 \cdot (\mathbf{A} - \mathbf{B})^2 - \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B}) \right]^2} \cdot \left[\mathbf{C} \cdot \mathbf{N}_u^3 \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 \cdot \mathbf{N}_u \right]}{\sqrt{\left[\mathbf{C} \cdot \mathbf{N}_u^3 \cdot (\mathbf{A} - \mathbf{B})^2 + \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{D}^2 \cdot \mathbf{N}_u \right]^2} \cdot \left[\mathbf{A}^2 \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N}_u^2 \cdot (\mathbf{A} - \mathbf{B})^2 - \mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_u \cdot (\mathbf{A} - \mathbf{B}) \right]} = 0$$



N₁ = 1.74085
N₂ = 1.24687
N₃ = 0.64140
N₄ = 2.77959
R = 3.25003

Unit. AB := 1 Given. N₁ := 1.74085 N₂ := 1.24687 N₃ := .64140
N₄ := 2.77959

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

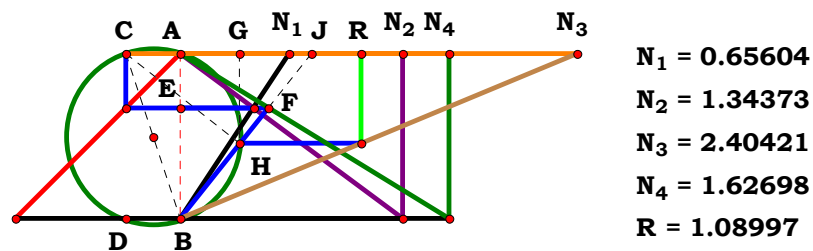
Descriptions.

$$\frac{2 \cdot N_u^2 \cdot (A + D)}{\sqrt{A \cdot C \cdot \left(\sqrt{A^3 + 2 \cdot A^2 \cdot D + A \cdot D^2 + 4 \cdot B^2 \cdot D} - A^{\frac{3}{2}} - \sqrt{A \cdot D} \right)}} = 3.250024$$
$$\text{Den} := \frac{\sqrt{A \cdot C \cdot \left(\sqrt{A^3 + 2 \cdot A^2 \cdot D + A \cdot D^2 + 4 \cdot B^2 \cdot D} - A^{\frac{3}{2}} - \sqrt{A \cdot D} \right)}}{\sqrt{\left[\sqrt{A \cdot C \cdot \left(\sqrt{A^3 + 2 \cdot A^2 \cdot D + A \cdot D^2 + 4 \cdot B^2 \cdot D} - A^{\frac{3}{2}} - \sqrt{A \cdot D} \right)} \right]^2}}$$

Num = 1 Den = 1 L = 1

$$\text{Num} := \frac{2 \cdot N_u^2 \cdot (A + D)}{\sqrt{\left[2 \cdot N_u^2 \cdot (A + D) \right]^2}}$$
$$L := \frac{\text{Num}}{\text{Den}}$$

$$L - \frac{N_u^2 \cdot (A + D) \cdot \sqrt{A \cdot C^2 \cdot \left(A^{\frac{3}{2}} - \sqrt{A^3 + 2 \cdot A^2 \cdot D + A \cdot D^2 + 4 \cdot B^2 \cdot D} + \sqrt{A \cdot D} \right)^2}}{\sqrt{A \cdot C \cdot \sqrt{N_u^4 \cdot (A + D)^2} \cdot \left(\sqrt{A^3 + 2 \cdot A^2 \cdot D + A \cdot D^2 + 4 \cdot B^2 \cdot D} - A^{\frac{3}{2}} - \sqrt{A \cdot D} \right)}} = 0$$



Unit. AB := 1 Given. $N_1 := .65604$ $N_2 := 1.34373$ $N_3 := 2.40421$
 $N_4 := 1.62698$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{D} \cdot \mathbf{A} \cdot \mathbf{B} - \mathbf{N}_{\mathbf{u}} \cdot \mathbf{B}^2)}{\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2)} = 1.089977$$

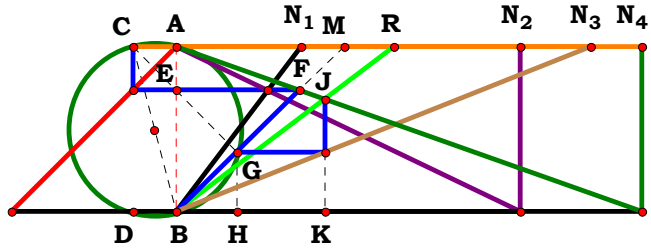
$$\mathbf{Num} := \frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{D} \cdot \mathbf{A} \cdot \mathbf{B} - \mathbf{N}_{\mathbf{u}} \cdot \mathbf{B}^2)}{\sqrt{[\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot \left(\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{D} \cdot \mathbf{A} \cdot \mathbf{B} - \mathbf{N}_{\mathbf{u}} \cdot \mathbf{B}^2 \right) \cdot \sqrt{\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot \left(\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \right)^2}}{\mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot \left(\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \right) \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot \left(\mathbf{D} \cdot \mathbf{A}^2 + \mathbf{D} \cdot \mathbf{A} \cdot \mathbf{B} - \mathbf{N}_{\mathbf{u}} \cdot \mathbf{B}^2 \right)^2}} = 0$$



N₁ = 0.75290
N₂ = 2.07985
N₃ = 2.51075
N₄ = 2.81833
R = 1.31502

Unit. AB := 1 Given. N₁ := .75290 N₂ := 2.07985 N₃ := 2.51075
N₄ := 2.81833

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{A \cdot D \cdot N_u \cdot \left(D \cdot A^2 + D \cdot A \cdot B - N_u \cdot B^2 \right)}{N_u^2 \cdot B^2 \cdot C \cdot (A + B) + A \cdot D^2 \cdot \left[A^2 \cdot (C - D) + B^2 \cdot N_u + A \cdot B \cdot (C - D) \right]} = 1.315017$$

$$\text{Num} := \frac{A \cdot D \cdot N_u \cdot \left(D \cdot A^2 + D \cdot A \cdot B - N_u \cdot B^2 \right)}{\sqrt{\left[A \cdot D \cdot N_u \cdot \left(D \cdot A^2 + D \cdot A \cdot B - N_u \cdot B^2 \right) \right]^2}}$$

$$\text{Den} := \frac{N_u^2 \cdot B^2 \cdot C \cdot (A + B) + A \cdot D^2 \cdot \left[A^2 \cdot (C - D) + B^2 \cdot N_u + A \cdot B \cdot (C - D) \right]}{\sqrt{\left[N_u^2 \cdot B^2 \cdot C \cdot (A + B) + A \cdot D^2 \cdot \left[A^2 \cdot (C - D) + B^2 \cdot N_u + A \cdot B \cdot (C - D) \right] \right]^2}}$$

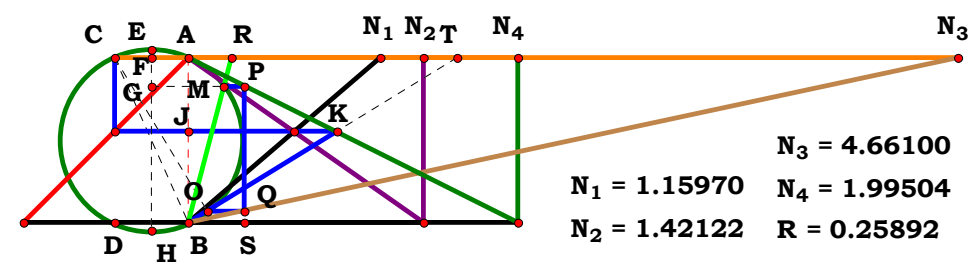
$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot D \cdot N_u \cdot \sqrt{\left[A \cdot D^2 \cdot \left[(C - D) \cdot A^2 + (C - D) \cdot A \cdot B + N_u \cdot B^2 \right] + B^2 \cdot C \cdot N_u^2 \cdot (A + B) \right]^2} \cdot \left(D \cdot A^2 + D \cdot A \cdot B - N_u \cdot B^2 \right)}{\left[A \cdot D^2 \cdot \left[(C - D) \cdot A^2 + (C - D) \cdot A \cdot B + N_u \cdot B^2 \right] + B^2 \cdot C \cdot N_u^2 \cdot (A + B) \right] \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2 \cdot \left(D \cdot A^2 + D \cdot A \cdot B - N_u \cdot B^2 \right)^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := 1.15970 **N₄** := 1.99504
N₂ := 1.42122
N₃ := 4.66100



Descriptions.

AC := $\frac{N_1}{N_1 + N_2}$ **AJ** := $\frac{N_1}{N_1 + N_2}$

JK := **N₄** · **AJ** **AT** := $\frac{JK}{AB - AJ}$

EH := $\sqrt{AB^2 + AC^2}$ **AF** := $\frac{AC}{2}$

EF := $\frac{EH - AB}{2}$ **BT** := $\sqrt{AB^2 + AT^2}$

CT := **AT** + **AC** **OT** := $\frac{CT \cdot AT}{BT}$

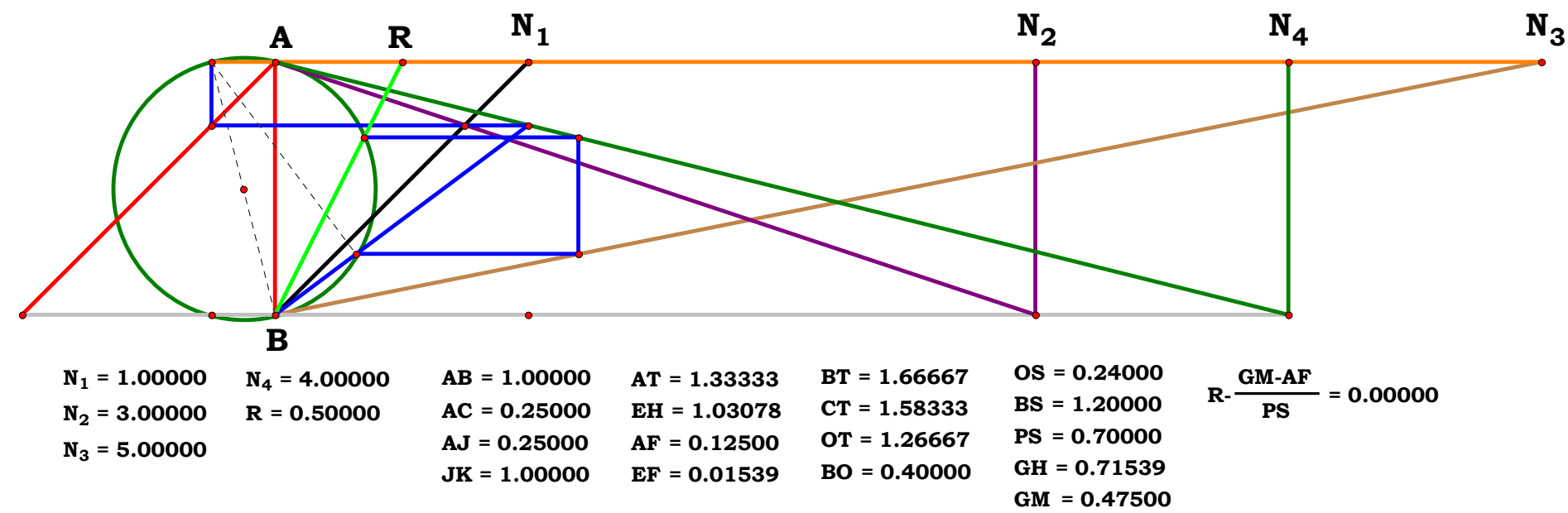
BO := **BT** - **OT** **OS** := $\frac{BO}{BT}$

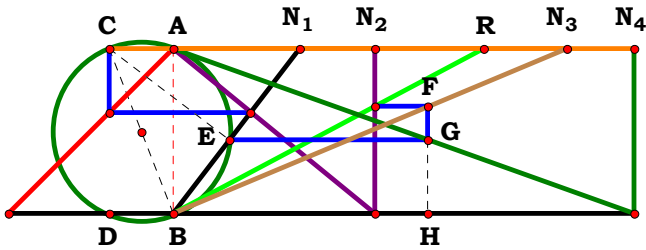
BS := **N₃** · **OS** **PS** := $\frac{N_4 - BS}{N_4}$

GH := **PS** + **EF** **GM** := $\sqrt{GH \cdot (EH - GH)}$

R := $\frac{GM - AF}{PS}$ **R** = 0.258922

Definitions.





$N_1 = 0.76258$
 $N_2 = 1.21782$
 $N_3 = 2.38484$
 $N_4 = 2.78928$
 $R = 1.88161$

Unit. $AB := 1$ Given. $N_1 := .76258$ $N_2 := 1.21782$ $N_3 := 2.38484$
 $N_4 := 2.78928$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

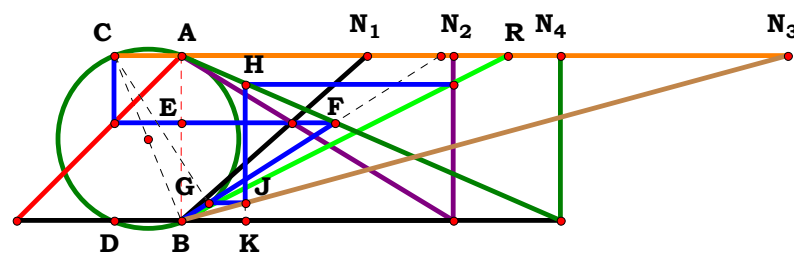
Descriptions.

$$\frac{D \cdot (A^2 + N_u^2) \cdot (A + B)}{B \cdot C \cdot [A \cdot B + N_u \cdot (A + B)]} = 1.881632 \quad \text{Num} := \frac{D \cdot (A^2 + N_u^2) \cdot (A + B)}{\sqrt{[D \cdot (A^2 + N_u^2) \cdot (A + B)]^2}}$$

$$\text{Den} := \frac{B \cdot C \cdot [A \cdot B + N_u \cdot (A + B)]}{\sqrt{[B \cdot C \cdot [A \cdot B + N_u \cdot (A + B)]]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{D \cdot (A^2 + N_u^2) \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot [N_u \cdot (A + B) + A \cdot B]^2}}{B \cdot C \cdot [N_u \cdot (A + B) + A \cdot B] \cdot \sqrt{D^2 \cdot (A^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



N₁ = 1.12096
N₂ = 1.64399
N₃ = 3.67305
N₄ = 2.29530
R = 1.97967

Unit. AB := 1 Given. $N_1 := 1.12096$ $N_2 := 1.64399$ $N_3 := 3.67305$
 $N_4 := 2.29530$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

Descriptions.

$$\frac{\mathbf{C} \cdot \mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N_u}^2)}{\mathbf{B}^3 \cdot \mathbf{C} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot [\mathbf{A}^2 \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{B}^2 \cdot \mathbf{N_u} + \mathbf{A} \cdot \mathbf{B} \cdot (\mathbf{C} - \mathbf{D})]} = 1.979665$$

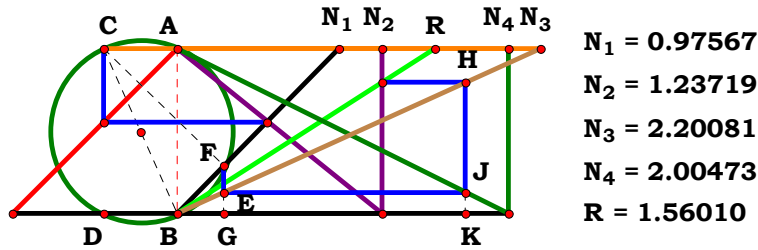
$$\mathbf{Den} := \frac{\mathbf{B}^3 \cdot \mathbf{C} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot [\mathbf{A}^2 \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{B}^2 \cdot \mathbf{N_u} + \mathbf{A} \cdot \mathbf{B} \cdot (\mathbf{C} - \mathbf{D})]}{\sqrt{\left[\mathbf{B}^3 \cdot \mathbf{C} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{D}^2 \cdot [\mathbf{A}^2 \cdot (\mathbf{C} - \mathbf{D}) + \mathbf{B}^2 \cdot \mathbf{N_u} + \mathbf{A} \cdot \mathbf{B} \cdot (\mathbf{C} - \mathbf{D})] \right]^2}}$$

$$\mathbf{Num} := \frac{\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{\left[\mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 \cdot \mathbf{D}^2 + \mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^2) \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{C \cdot N_u \cdot \sqrt{\left[B^3 \cdot C \cdot N_u^2 \cdot (A+B) + A \cdot B \cdot D^2 \cdot \left[(C-D) \cdot A^2 + (C-D) \cdot A \cdot B + N_u \cdot B^2 \right] \right]^2 \cdot (A+B) \cdot (A^2 \cdot D^2 + B^2 \cdot N_u^2)}}{\left[B^3 \cdot C \cdot N_u^2 \cdot (A+B) + A \cdot B \cdot D^2 \cdot \left[(C-D) \cdot A^2 + (C-D) \cdot A \cdot B + N_u \cdot B^2 \right] \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A+B)^2 \cdot (A^2 \cdot D^2 + B^2 \cdot N_u^2)^2}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .97567 \quad N_2 := 1.23719 \quad N_3 := 2.20081$$

$$N_4 := 2.00473$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B)}{B \cdot C \cdot \left[(A + B) \cdot N_u^2 + B \cdot C \cdot N_u + A \cdot (A - C) \cdot (A + B) \right]} = 1.560102$$

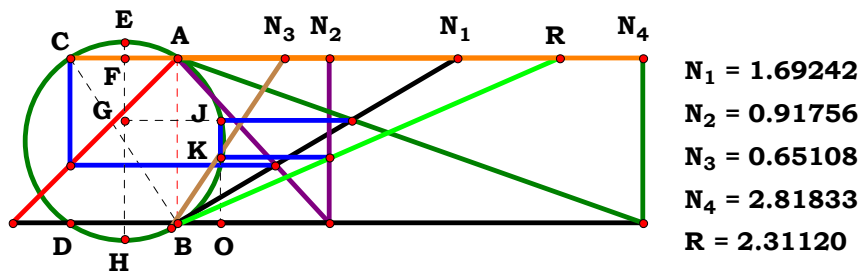
$$\text{Num} := \frac{D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B)}{\sqrt{\left[D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B) \right]^2}}$$

$$\text{Den} := \frac{B \cdot C \cdot \left[(A + B) \cdot N_u^2 + B \cdot C \cdot N_u + A \cdot (A - C) \cdot (A + B) \right]}{\sqrt{\left[B \cdot C \cdot \left[(A + B) \cdot N_u^2 + B \cdot C \cdot N_u + A \cdot (A - C) \cdot (A + B) \right] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot \left[(A + B) \cdot N_u^2 + B \cdot C \cdot N_u + A \cdot (A + B) \cdot (A - C) \right]^2}}{B \cdot C \cdot \left[(A + B) \cdot N_u^2 + B \cdot C \cdot N_u + A \cdot (A + B) \cdot (A - C) \right] \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



$$\begin{aligned} \text{Unit. } AB &:= 1 & \text{Given. } N_1 &:= 1.69242 & N_2 &:= .91756 & N_3 &:= .65108 \\ & & N_4 &:= 2.81833 \\ N_u &:= 3 & A &:= \frac{N_u}{N_1} & B &:= \frac{N_u}{N_2} & C &:= \frac{N_u}{N_3} & D &:= \frac{N_u}{N_4} \end{aligned}$$

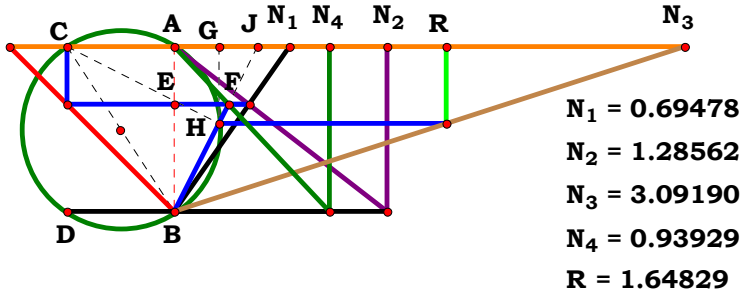
Descriptions.

$$\frac{2 \cdot N_u^2 \cdot (A + B) \cdot (A + D)}{B \cdot C \cdot \left[\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 8 \cdot A^2 \cdot B \cdot D + 6 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - B \cdot (A + D) \right]} = 2.3112 \qquad \text{Num} := \frac{2 \cdot N_u^2 \cdot (A + B) \cdot (A + D)}{\sqrt{\left[2 \cdot N_u^2 \cdot (A + B) \cdot (A + D) \right]^2}}$$

$$\text{Den} := \frac{B \cdot C \cdot \left[\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 8 \cdot A^2 \cdot B \cdot D + 6 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - B \cdot (A + D) \right]}{\sqrt{\left[B \cdot C \cdot \left[\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 8 \cdot A^2 \cdot B \cdot D + 6 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - B \cdot (A + D) \right] \right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{N_u^2 \cdot (A + B) \cdot (A + D) \cdot \sqrt{B^2 \cdot C^2 \cdot \left[\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 8 \cdot A^2 \cdot B \cdot D + 6 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - B \cdot (A + D) \right]^2}}{B \cdot C \cdot \left[\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 8 \cdot A^2 \cdot B \cdot D + 6 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - B \cdot (A + D) \right] \cdot \sqrt{N_u^4 \cdot (A + B)^2 \cdot (A + D)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := .69478$ $N_2 := 1.28562$ $N_3 := 3.09190$

$N_4 := .93929$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3} \qquad D := \frac{N_u}{N_4}$$

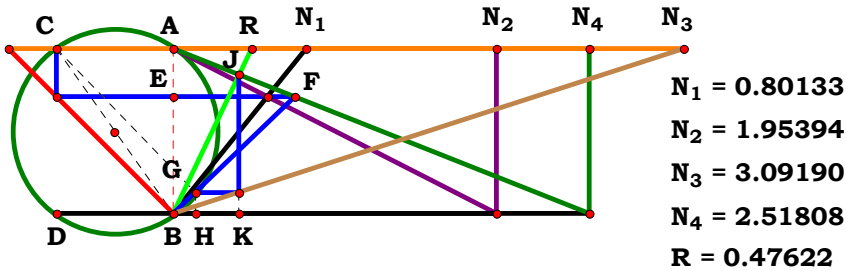
Descriptions.

$$\frac{A^2 \cdot D \cdot N_u \cdot \left[D \cdot (A + B) - B \cdot N_u \right]}{C \cdot (A + B) \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2 \right)} = 1.648305 \qquad \text{Num} := \frac{A^2 \cdot D \cdot N_u \cdot \left[D \cdot (A + B) - B \cdot N_u \right]}{\sqrt{\left[A^2 \cdot D \cdot N_u \cdot \left[D \cdot (A + B) - B \cdot N_u \right] \right]^2}}$$

$$\text{Den} := \frac{C \cdot (A + B) \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2 \right)}{\sqrt{\left[C \cdot (A + B) \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2 \right) \right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{A^2 \cdot D \cdot N_u \cdot \left[D \cdot (A + B) - B \cdot N_u \right] \cdot \sqrt{C^2 \cdot (A + B)^2 \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2 \right)^2}}{C \cdot (A + B) \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2 \right) \cdot \sqrt{A^4 \cdot D^2 \cdot N_u^2 \cdot \left[D \cdot (A + B) - B \cdot N_u \right]^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := .80133
N₂ := 1.95394
N₃ := 3.09190
N₄ := 2.51808

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{A^2 \cdot D \cdot N_u \cdot [D \cdot (A + B) - B \cdot N_u]}{N_u^2 \cdot B^2 \cdot C \cdot (A + B) + [A^3 \cdot D^2 \cdot (C - D) + A^2 \cdot B \cdot D^2 \cdot (C - D + N_u)]} = 0.476209$$

$$Num := \frac{A^2 \cdot D \cdot N_u \cdot [D \cdot (A + B) - B \cdot N_u]}{\sqrt{[A^2 \cdot D \cdot N_u \cdot [D \cdot (A + B) - B \cdot N_u]]^2}}$$

$$Den := \frac{N_u^2 \cdot B^2 \cdot C \cdot (A + B) + [A^3 \cdot D^2 \cdot (C - D) + A^2 \cdot B \cdot D^2 \cdot (C - D + N_u)]}{\sqrt{[N_u^2 \cdot B^2 \cdot C \cdot (A + B) + [A^3 \cdot D^2 \cdot (C - D) + A^2 \cdot B \cdot D^2 \cdot (C - D + N_u)]]^2}}$$

$$L := \frac{Num}{Den}$$

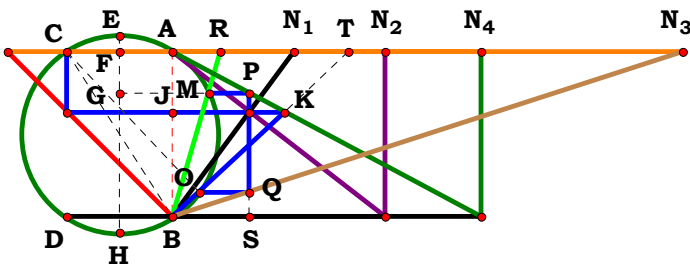
Num = 1
Den = 1
L = 1

$$L - \frac{A^2 \cdot D \cdot N_u \cdot [D \cdot (A + B) - B \cdot N_u] \cdot \sqrt{[A^3 \cdot D^2 \cdot (C - D) + A^2 \cdot B \cdot D^2 \cdot (C - D + N_u) + B^2 \cdot C \cdot N_u^2 \cdot (A + B)]^2}}{[A^3 \cdot D^2 \cdot (C - D) + A^2 \cdot B \cdot D^2 \cdot (C - D + N_u) + B^2 \cdot C \cdot N_u^2 \cdot (A + B)] \cdot \sqrt{A^4 \cdot D^2 \cdot N_u^2 \cdot [D \cdot (A + B) - B \cdot N_u]^2}} = 0$$



Unit.
AB := 1
Given.
N₁ := .73353

N₂ := 1.28562
N₃ := 3.09190
N₄ := 1.86913



N₁ = 0.73353
N₂ = 1.28562
N₃ = 3.09190
N₄ = 1.86913
R = 0.29052

Descriptions.

$AC := \frac{N_2}{N_1 + N_2}$ $AJ := \frac{N_1}{N_1 + N_2}$

$JK := N_4 \cdot AJ$ $AT := \frac{JK}{AB - AJ}$

$EH := \sqrt{AB^2 + AC^2}$ $AF := \frac{AC}{2}$

$EF := \frac{EH - AB}{2}$ $BT := \sqrt{AB^2 + AT^2}$

$CT := AT + AC$ $OT := \frac{CT \cdot AT}{BT}$

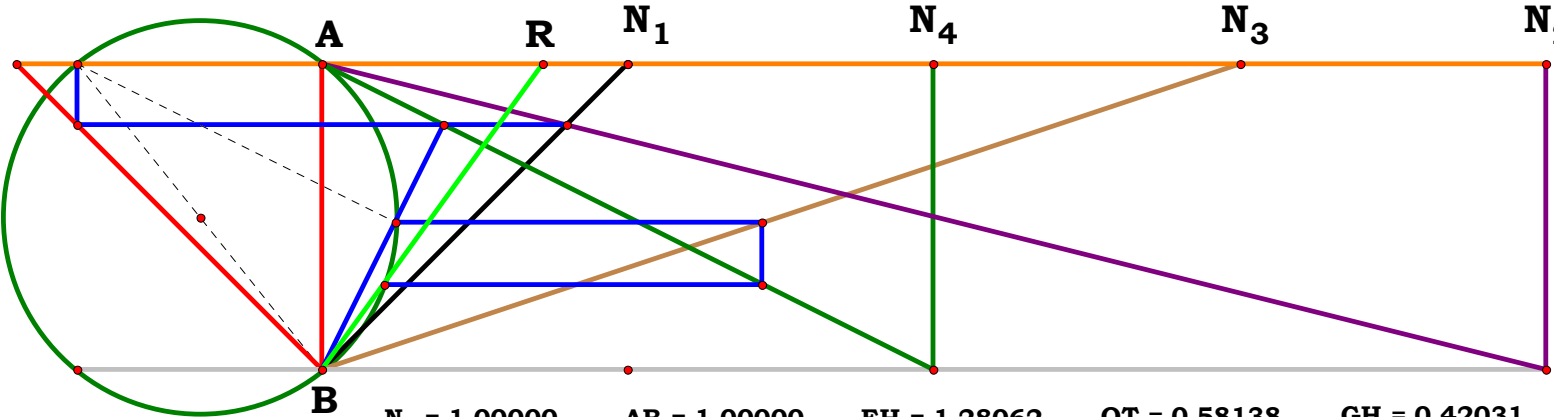
$BO := BT - OT$ $OS := \frac{BO}{BT}$

$BS := N_3 \cdot OS$ $PS := \frac{N_4 - BS}{N_4}$

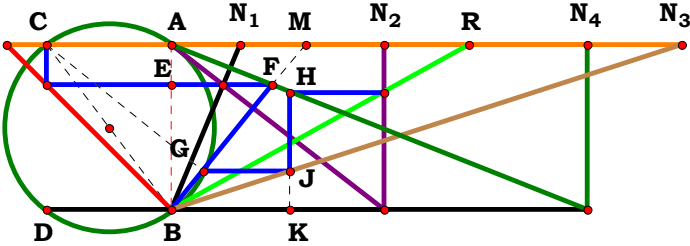
$GH := PS + EF$ $GM := \sqrt{GH \cdot (EH - GH)}$

$R := \frac{GM - AF}{PS}$ $R = 0.290522$

Definitions.



N ₁ = 1.00000	AB = 1.00000	EH = 1.28062	OT = 0.58138	GH = 0.42031
N ₂ = 4.00000	AC = 0.80000	AF = 0.40000	BO = 0.53666	GM = 0.60133
N ₃ = 3.00000	AJ = 0.20000	EF = 0.14031	OS = 0.48000	$R \cdot \frac{GM - AF}{PS} = 0.00000$
N ₄ = 2.00000	JK = 0.40000	BT = 1.11803	BS = 1.44000	
R = 0.71904	AT = 0.50000	CT = 1.30000	PS = 0.28000	



N₁ = 0.41390
N₂ = 1.28562
N₃ = 3.09190
N₄ = 2.51808
R = 1.80200

Unit. AB := 1 Given. N₁ := .41390 N₂ := 1.28562 N₃ := 3.09190

N₄ := 2.51808

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{C \cdot N_u \cdot (A + B) \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2\right)}{N_u^2 \cdot B^3 \cdot C \cdot (A + B) + A^2 \cdot B^2 \cdot D^2 \cdot N_u + A^2 \cdot B \cdot D^2 \cdot (C - D) \cdot (A + B)} = 1.801987$$

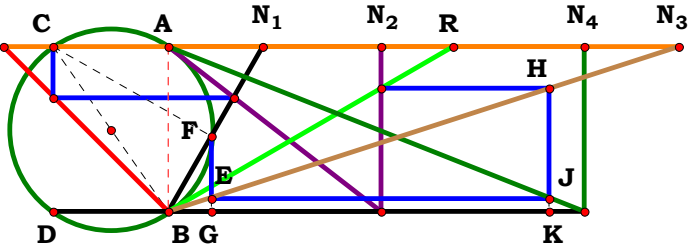
$$Num := \frac{C \cdot N_u \cdot (A + B) \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2\right)}{\sqrt{\left[C \cdot N_u \cdot (A + B) \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2\right)\right]^2}}$$

$$Den := \frac{N_u^2 \cdot B^3 \cdot C \cdot (A + B) + A^2 \cdot B^2 \cdot D^2 \cdot N_u + A^2 \cdot B \cdot D^2 \cdot (C - D) \cdot (A + B)}{\sqrt{\left[N_u^2 \cdot B^3 \cdot C \cdot (A + B) + A^2 \cdot B^2 \cdot D^2 \cdot N_u + A^2 \cdot B \cdot D^2 \cdot (C - D) \cdot (A + B)\right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{C \cdot N_u \cdot \sqrt{\left[A^2 \cdot B^2 \cdot D^2 \cdot N_u + B^3 \cdot C \cdot N_u^2 \cdot (A + B) + A^2 \cdot B \cdot D^2 \cdot (A + B) \cdot (C - D)\right]^2} \cdot (A + B) \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2\right)}{\left[A^2 \cdot B^2 \cdot D^2 \cdot N_u + B^3 \cdot C \cdot N_u^2 \cdot (A + B) + A^2 \cdot B \cdot D^2 \cdot (A + B) \cdot (C - D)\right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + B)^2 \cdot \left(A^2 \cdot D^2 + B^2 \cdot N_u^2\right)^2}} = 0$$



N₁ = 0.56887
N₂ = 1.28562
N₃ = 3.09190
N₄ = 2.51808
R = 1.72370

Unit. AB := 1 Given. N₁ := .56887 N₂ := 1.28562 N₃ := 3.09190

N₄ := 2.51808

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B)}{B \cdot C \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u + A \cdot (A - C) \cdot (A + B) \right]} = 1.723697$$

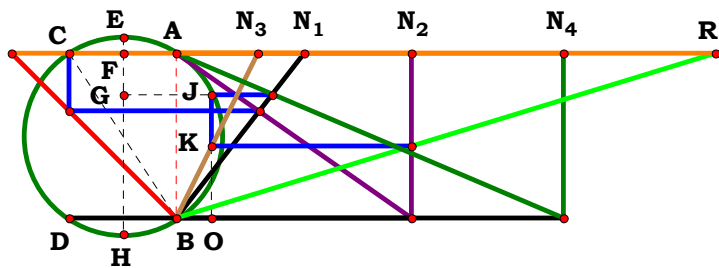
$$Num := \frac{D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B)}{\sqrt{\left[D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B) \right]^2}}$$

$$Den := \frac{B \cdot C \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u + A \cdot (A - C) \cdot (A + B) \right]}{\sqrt{\left[B \cdot C \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u + A \cdot (A - C) \cdot (A + B) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{D \cdot N_u \cdot (A^2 + N_u^2) \cdot (A + B) \cdot \sqrt{B^2 \cdot C^2 \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u + A \cdot (A + B) \cdot (A - C) \right]^2}}{B \cdot C \cdot \left[(A + B) \cdot N_u^2 + A \cdot C \cdot N_u + A \cdot (A + B) \cdot (A - C) \right] \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2 \cdot (A + B)^2}} = 0$$



N₁ = 0.77227
N₂ = 1.42122
N₃ = 0.49611
N₄ = 2.34373
R = 3.26696

Unit. AB := 1 Given. N₁ := .77227 N₂ := 1.42122 N₃ := .49611
N₄ := 2.34373

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{2 \cdot N_u^4 \cdot (A + B) \cdot (A + D)}{\sqrt{A \cdot B \cdot C \cdot N_u^2} \cdot \left[\sqrt{A^3 + 6 \cdot D \cdot A^2 + A \cdot D \cdot (8 \cdot B + D) + 4 \cdot B^2 \cdot D - A^{\frac{3}{2}} - \sqrt{A \cdot D}} \right]} = 3.266965$$

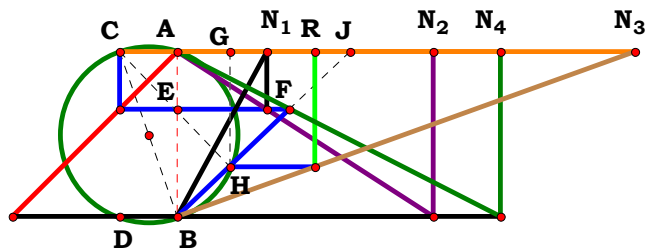
$$\text{Den} := \frac{\sqrt{A \cdot B \cdot C \cdot N_u^2} \cdot \left[\sqrt{A^3 + 6 \cdot D \cdot A^2 + A \cdot D \cdot (8 \cdot B + D) + 4 \cdot B^2 \cdot D - A^{\frac{3}{2}} - \sqrt{A \cdot D}} \right]}{\sqrt{\left[\sqrt{A \cdot B \cdot C \cdot N_u^2} \cdot \left[\sqrt{A^3 + 6 \cdot D \cdot A^2 + A \cdot D \cdot (8 \cdot B + D) + 4 \cdot B^2 \cdot D - A^{\frac{3}{2}} - \sqrt{A \cdot D}} \right] \right]^2}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^2 \cdot (A + B) \cdot (A + D) \cdot \sqrt{A \cdot B^2 \cdot C^2 \cdot N_u^4} \cdot \left[\sqrt{A^3 + 6 \cdot D \cdot A^2 + A \cdot D \cdot (8 \cdot B + D) + 4 \cdot B^2 \cdot D - A^{\frac{3}{2}} - \sqrt{A \cdot D}} \right]^2}{\sqrt{A \cdot B \cdot C} \cdot \left[\sqrt{A^3 + 6 \cdot D \cdot A^2 + A \cdot D \cdot (8 \cdot B + D) + 4 \cdot B^2 \cdot D - A^{\frac{3}{2}} - \sqrt{A \cdot D}} \right] \cdot \sqrt{N_u^8 \cdot (A + B)^2 \cdot (A + D)^2}} = 0$$

$$\text{Num} := \frac{2 \cdot N_u^4 \cdot (A + B) \cdot (A + D)}{\sqrt{\left[2 \cdot N_u^4 \cdot (A + B) \cdot (A + D) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$



N₁ = 0.53981
N₂ = 1.54713
N₃ = 2.77227
N₄ = 1.95630
R = 0.83763

Unit. AB := 1 Given. N₁ := .53981 N₂ := 1.54713 N₃ := 2.77227

N₄ := 1.95630

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{D \cdot N_u \cdot (A - B) \cdot \left(A^2 \cdot D - D \cdot A \cdot B - N_u \cdot B^2\right)}{A \cdot C \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2\right)} = 0.837627$$

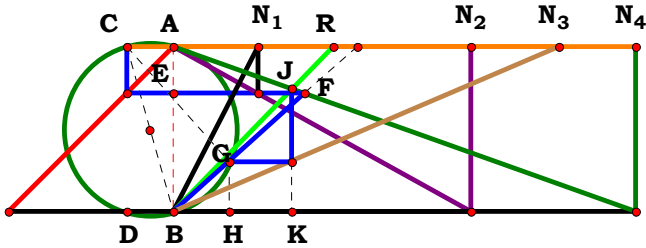
$$\text{Num} := \frac{D \cdot N_u \cdot (A - B) \cdot \left(A^2 \cdot D - D \cdot A \cdot B - N_u \cdot B^2\right)}{\sqrt{\left[D \cdot N_u \cdot (A - B) \cdot \left(A^2 \cdot D - D \cdot A \cdot B - N_u \cdot B^2\right)\right]^2}}$$

$$\text{Den} := \frac{A \cdot C \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2\right)}{\sqrt{\left[A \cdot C \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2\right)\right]^2}}$$

$$\text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\text{L} - \frac{D \cdot N_u \cdot (A - B) \cdot \left(A^2 \cdot D - D \cdot A \cdot B - N_u \cdot B^2\right) \cdot \sqrt{A^2 \cdot C^2 \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2\right)^2}}{A \cdot C \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A - B)^2 \cdot \left(A^2 \cdot D - D \cdot A \cdot B - N_u \cdot B^2\right)^2 \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2\right)}} = 0$$



N₁ = 0.51075
 N₂ = 1.79896
 N₃ = 2.33641
 N₄ = 2.79896
 R = 0.96414

Unit. AB := 1 Given. N₁ := .51075 N₂ := 1.79896 N₃ := 2.33641

N₄ := 2.79896

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{D \cdot N_u \cdot (A - B) \cdot \left(D \cdot A^2 - D \cdot A \cdot B - N_u \cdot B^2 \right)}{A \cdot B^2 \cdot C \cdot N_u^2 + N_u \cdot B^2 \cdot D^2 \cdot (A - B) + A \cdot D^2 \cdot (A - B)^2 \cdot (C - D)} = 0.96416$$

$$\text{Den} := \frac{A \cdot B^2 \cdot C \cdot N_u^2 + N_u \cdot B^2 \cdot D^2 \cdot (A - B) + A \cdot D^2 \cdot (A - B)^2 \cdot (C - D)}{\sqrt{\left[A \cdot B^2 \cdot C \cdot N_u^2 + N_u \cdot B^2 \cdot D^2 \cdot (A - B) + A \cdot D^2 \cdot (A - B)^2 \cdot (C - D) \right]^2}}$$

$$\text{Num} := \frac{D \cdot N_u \cdot (A - B) \cdot \left(D \cdot A^2 - D \cdot A \cdot B - N_u \cdot B^2 \right)}{\sqrt{\left[D \cdot N_u \cdot (A - B) \cdot \left(D \cdot A^2 - D \cdot A \cdot B - N_u \cdot B^2 \right) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

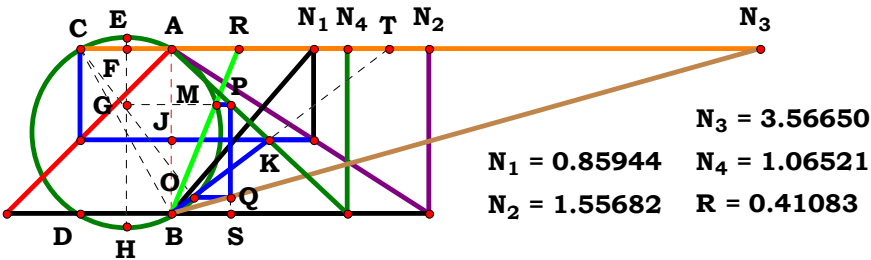
$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{D \cdot N_u \cdot \sqrt{\left[B^2 \cdot D^2 \cdot N_u \cdot (A - B) + A \cdot D^2 \cdot (A - B)^2 \cdot (C - D) + A \cdot B^2 \cdot C \cdot N_u^2 \right]^2} \cdot (A - B) \cdot \left(D \cdot A^2 - D \cdot A \cdot B - N_u \cdot B^2 \right)}{\left[B^2 \cdot D^2 \cdot N_u \cdot (A - B) + A \cdot D^2 \cdot (A - B)^2 \cdot (C - D) + A \cdot B^2 \cdot C \cdot N_u^2 \right] \cdot \sqrt{D^2 \cdot N_u^2 \cdot (A - B)^2 \cdot \left(D \cdot A^2 - D \cdot A \cdot B - N_u \cdot B^2 \right)^2}} = 0$$



4RST7AB5R2

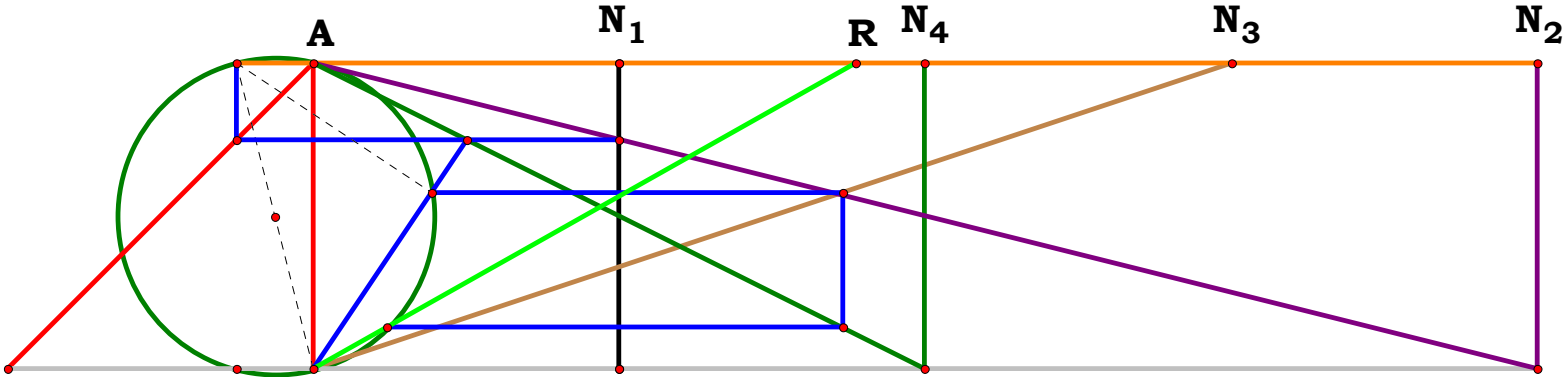
Unit. $N_2 := 1.55682$
AB := 1
Given. $N_3 := 3.56650$
 $N_1 := .85944$ $N_4 := 1.06521$



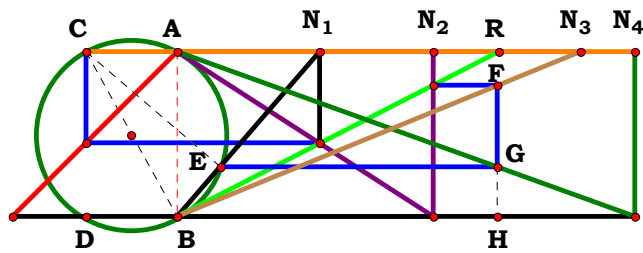
Descriptions.

$$\begin{aligned} AC &:= \frac{N_1}{N_2} & AJ &:= \frac{N_1}{N_2} \\ JK &:= N_4 \cdot AJ & AT &:= \frac{JK}{AB - AJ} \\ EH &:= \sqrt{AB^2 + AC^2} & AF &:= \frac{AC}{2} \\ EF &:= \frac{EH - AB}{2} & BT &:= \sqrt{AB^2 + AT^2} \\ CT &:= AT + AC & OT &:= \frac{CT \cdot AT}{BT} \\ BO &:= BT - OT & OS &:= \frac{BO}{BT} \\ BS &:= N_3 \cdot OS & PS &:= \frac{N_4 - BS}{N_4} \\ GH &:= PS + EF & GM &:= \sqrt{GH \cdot (EH - GH)} \\ R &:= \frac{GM - AF}{PS} & R &= 0.410843 \end{aligned}$$

Definitions.



$N_1 = 1.00000$	$AB = 1.00000$	$EH = 1.03078$	$OT = 0.50848$	$GH = 0.15000$
$N_2 = 4.00000$	$AC = 0.25000$	$AF = 0.12500$	$BO = 0.69338$	$GM = 0.36348$
$N_3 = 3.00000$	$AJ = 0.25000$	$EF = 0.01539$	$OS = 0.57692$	$R - \frac{GM - AF}{PS} = 0.00000$
$N_4 = 2.00000$	$JK = 0.50000$	$BT = 1.20185$	$BS = 1.73077$	
$R = 1.77158$	$AT = 0.66667$	$CT = 0.91667$	$PS = 0.13462$	



N₁ = 0.85944
N₂ = 1.54713
N₃ = 2.44295
N₄ = 2.76991
R = 1.95088

Unit. AB := 1 Given. N₁ := .85944 N₂ := 1.54713 N₃ := 2.44295
N₄ := 2.76991

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

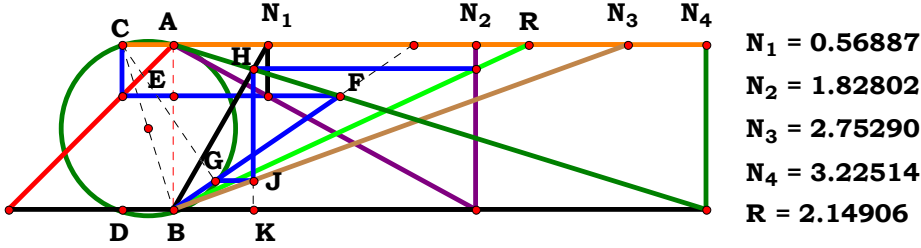
Descriptions.

$\frac{D \cdot (A^2 + N_u^2)}{B \cdot C \cdot (B + N_u)} = 1.950874$ Num := $\frac{D \cdot (A^2 + N_u^2)}{\sqrt{[D \cdot (A^2 + N_u^2)]^2}}$

Den := $\frac{B \cdot C \cdot (B + N_u)}{\sqrt{[B \cdot C \cdot (B + N_u)]^2}}$ L := $\frac{Num}{Den}$

Num = 1 Den = 1 L = 1

L - $\frac{D \cdot (A^2 + N_u^2) \cdot \sqrt{B^2 \cdot C^2 \cdot (B + N_u)^2}}{B \cdot C \cdot \sqrt{D^2 \cdot (A^2 + N_u^2)^2 \cdot (B + N_u)}} = 0$



Unit. $AB := 1$ Given. $N_1 := .56887$ $N_2 := 1.82802$ $N_3 := 2.75290$
 $N_4 := 3.22514$
 $N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{A \cdot C \cdot N_u \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2 \right)}{A^2 \cdot B \cdot D^2 \cdot (A - 2 \cdot B) \cdot (C - D) + A \cdot B^3 \cdot \left(D^2 \cdot N_u - D^3 + C \cdot D^2 + C \cdot N_u^2 \right) - B^4 \cdot D^2 \cdot N_u} = 2.149049$$

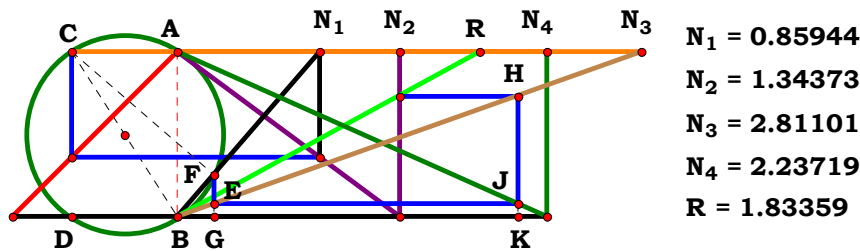
$$\text{Den} := \frac{A^2 \cdot B \cdot D^2 \cdot (A - 2 \cdot B) \cdot (C - D) + A \cdot B^3 \cdot \left(D^2 \cdot N_u - D^3 + C \cdot D^2 + C \cdot N_u^2 \right) - B^4 \cdot D^2 \cdot N_u}{\sqrt{\left[A^2 \cdot B \cdot D^2 \cdot (A - 2 \cdot B) \cdot (C - D) + A \cdot B^3 \cdot \left(D^2 \cdot N_u - D^3 + C \cdot D^2 + C \cdot N_u^2 \right) - B^4 \cdot D^2 \cdot N_u \right]^2}}$$

$$\text{Num} := \frac{A \cdot C \cdot N_u \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2 \right)}{\sqrt{\left[A \cdot C \cdot N_u \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2 \right) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{A \cdot C \cdot N_u \cdot \sqrt{\left[A \cdot B^3 \cdot \left(D^2 \cdot N_u - D^3 + C \cdot D^2 + C \cdot N_u^2 \right) - B^4 \cdot D^2 \cdot N_u + A^2 \cdot B \cdot D^2 \cdot (A - 2 \cdot B) \cdot (C - D) \right]^2} \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2 \right)}{\left[A \cdot B^3 \cdot \left(D^2 \cdot N_u - D^3 + C \cdot D^2 + C \cdot N_u^2 \right) - B^4 \cdot D^2 \cdot N_u + A^2 \cdot B \cdot D^2 \cdot (A - 2 \cdot B) \cdot (C - D) \right] \cdot \sqrt{A^2 \cdot C^2 \cdot N_u^2 \cdot \left(A^2 \cdot D^2 - 2 \cdot A \cdot B \cdot D^2 + B^2 \cdot D^2 + B^2 \cdot N_u^2 \right)^2}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .85944 \quad N_2 := 1.34373 \quad N_3 := 2.81101$$

$$N_4 := 2.23719$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{A \cdot D \cdot N_u \cdot (A^2 + N_u^2)}{A^2 \cdot B \cdot C \cdot (A - C) + B \cdot C \cdot N_u \cdot (B \cdot C + A \cdot N_u)} = 1.833581$$

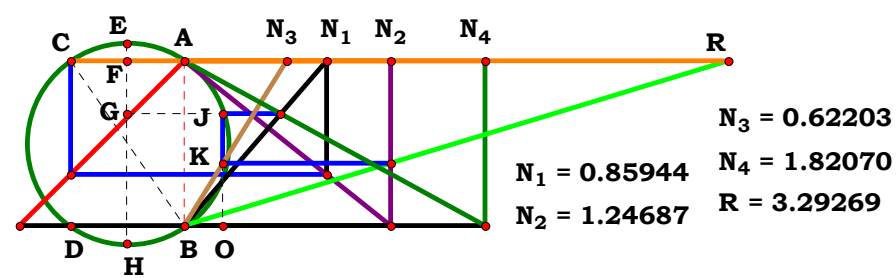
$$Num := \frac{A \cdot D \cdot N_u \cdot (A^2 + N_u^2)}{\sqrt{\left[A \cdot D \cdot N_u \cdot (A^2 + N_u^2)\right]^2}}$$

$$Den := \frac{A^2 \cdot B \cdot C \cdot (A - C) + B \cdot C \cdot N_u \cdot (B \cdot C + A \cdot N_u)}{\sqrt{\left[A^2 \cdot B \cdot C \cdot (A - C) + B \cdot C \cdot N_u \cdot (B \cdot C + A \cdot N_u)\right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{A \cdot D \cdot N_u \cdot \sqrt{\left[B \cdot C \cdot N_u \cdot (B \cdot C + A \cdot N_u) + A^2 \cdot B \cdot C \cdot (A - C)\right]^2} \cdot (A^2 + N_u^2)}{\left[B \cdot C \cdot N_u \cdot (B \cdot C + A \cdot N_u) + A^2 \cdot B \cdot C \cdot (A - C)\right] \cdot \sqrt{A^2 \cdot D^2 \cdot N_u^2 \cdot (A^2 + N_u^2)^2}} = 0$$



Unit. AB := 1 Given. N₁ := .85944 N₂ := 1.24687 N₃ := .62203

N₄ := 1.82070

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{2 \cdot A \cdot N_u^2 \cdot (A + D)}{B \cdot C \cdot \left(\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 2 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - A \cdot B - B \cdot D\right)} = 3.29271$$

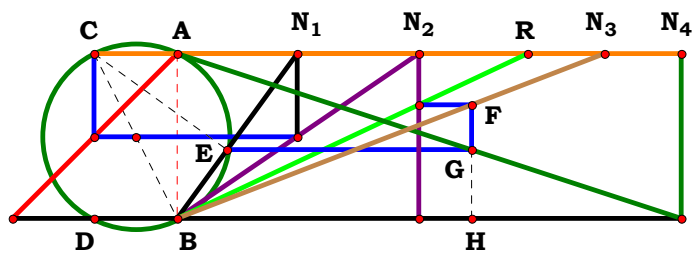
$$\text{Num} := \frac{2 \cdot A \cdot N_u^2 \cdot (A + D)}{\sqrt{\left[2 \cdot A \cdot N_u^2 \cdot (A + D)\right]^2}}$$

$$\text{Den} := \frac{B \cdot C \cdot \left(\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 2 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - A \cdot B - B \cdot D\right)}{\sqrt{\left[B \cdot C \cdot \left(\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 2 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - A \cdot B - B \cdot D\right)\right]^2}}$$

$$\text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\text{L} - \frac{A \cdot N_u^2 \cdot (A + D) \cdot \sqrt{B^2 \cdot C^2 \cdot \left(\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 2 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - A \cdot B - B \cdot D\right)^2}}{B \cdot C \cdot \left(\sqrt{4 \cdot A^3 \cdot D + A^2 \cdot B^2 + 2 \cdot A \cdot B^2 \cdot D + B^2 \cdot D^2} - A \cdot B - B \cdot D\right) \cdot \sqrt{A^2 \cdot N_u^4 \cdot (A + D)^2}} = 0$$



N₁ = 0.72384
N₂ = 1.45996
N₃ = 2.58824
N₄ = 3.05079
R = 2.12346

Unit. AB := 1 Given. $N_1 := .72384$ $N_2 := 1.45996$ $N_3 := 2.58824$
 $N_4 := 3.05079$

$$\mathbf{N}_u := \mathbf{3} \quad \mathbf{A} := \frac{\mathbf{N}_u}{\mathbf{N}_1} \quad \mathbf{B} := \frac{\mathbf{N}_u}{\mathbf{N}_2} \quad \mathbf{C} := \frac{\mathbf{N}_u}{\mathbf{N}_3} \quad \mathbf{D} := \frac{\mathbf{N}_u}{\mathbf{N}_4}$$

Descriptions.

$$\frac{\mathbf{D} \cdot \left(\mathbf{A}^2 + \mathbf{N}_u^2 \right)}{\mathbf{B} \cdot \mathbf{C} \cdot \left(\mathbf{A} - \mathbf{B} + \mathbf{N}_u \right)} = 2.123466$$

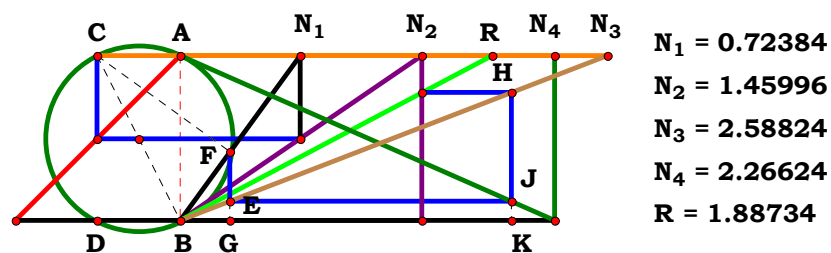
$$\mathbf{Num} := \frac{\mathbf{D} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)}{\sqrt{[\mathbf{D} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_u)}{\sqrt{[\mathbf{B} \cdot \mathbf{C} \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_u)]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{D} \cdot (\mathbf{A}^2 + \mathbf{N}_u^2) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_u)^2}}{\mathbf{B} \cdot \mathbf{C} \cdot \sqrt{\mathbf{D}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_u^2)^2 \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_u)}} = 0$$



Unit. AB := 1 Given. $N_1 := .72384$ $N_2 := 1.45996$ $N_3 := 2.58824$
 $N_4 := 2.26624$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$ $D := \frac{N_u}{N_4}$

Descriptions.

$$\frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\mathbf{B} \cdot \mathbf{C} \cdot [\mathbf{A}^3 - \mathbf{C} \cdot \mathbf{A}^2 + \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}]]} = 1.887347$$

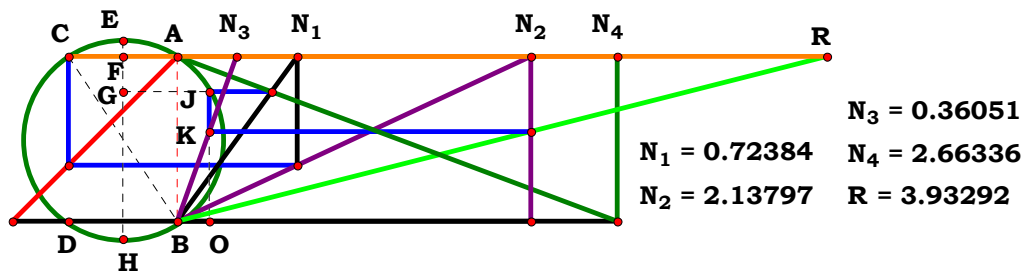
$$\text{Num} := \frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)}{\sqrt{[\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)]^2}}$$

$$\text{Den} := \frac{\mathbf{B} \cdot \mathbf{C} \cdot [\mathbf{A}^3 - \mathbf{C} \cdot \mathbf{A}^2 + \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}]]}{\sqrt{[\mathbf{B} \cdot \mathbf{C} \cdot [\mathbf{A}^3 - \mathbf{C} \cdot \mathbf{A}^2 + \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{C} \cdot (\mathbf{A} - \mathbf{B}) + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}]]]^2}}$$

$$\mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot \sqrt{\mathbf{B}^2 \cdot \mathbf{C}^2 \cdot [\mathbf{A}^3 + \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})] - \mathbf{A}^2 \cdot \mathbf{C}]^2}}{\mathbf{B} \cdot \mathbf{C} \cdot [\mathbf{A}^3 + \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{C} \cdot (\mathbf{A} - \mathbf{B})] - \mathbf{A}^2 \cdot \mathbf{C}] \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{D}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}}^2)^2}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .72384 \quad N_2 := 2.13797 \quad N_3 := .36051$$

$$N_4 := 2.66336$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{2 \cdot A \cdot N_u^2 \cdot (A + D)}{B \cdot C \cdot \left[\sqrt{B^2 \cdot (A + D)^2 + A^2 \cdot (A^2 + 6 \cdot A \cdot D + D^2)} - 2 \cdot A \cdot B \cdot (A + D)^2 - (A + D) \cdot (A - B) \right]} = 3.93294$$

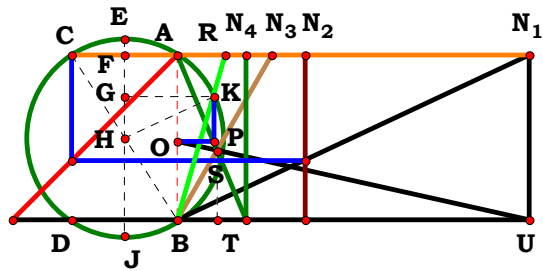
$$Num := \frac{2 \cdot A \cdot N_u^2 \cdot (A + D)}{\sqrt{\left[2 \cdot A \cdot N_u^2 \cdot (A + D) \right]^2}}$$

$$Den := \frac{B \cdot C \cdot \left[\sqrt{B^2 \cdot (A + D)^2 + A^2 \cdot (A^2 + 6 \cdot A \cdot D + D^2)} - 2 \cdot A \cdot B \cdot (A + D)^2 - (A + D) \cdot (A - B) \right]}{\sqrt{\left[B \cdot C \cdot \left[\sqrt{B^2 \cdot (A + D)^2 + A^2 \cdot (A^2 + 6 \cdot A \cdot D + D^2)} - 2 \cdot A \cdot B \cdot (A + D)^2 - (A + D) \cdot (A - B) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{A \cdot N_u^2 \cdot (A + D) \cdot \sqrt{B^2 \cdot C^2 \cdot \left[\sqrt{B^2 \cdot (A + D)^2 + A^2 \cdot (A^2 + 6 \cdot A \cdot D + D^2)} - 2 \cdot A \cdot B \cdot (A + D)^2 - (A + D) \cdot (A - B) \right]^2}}{B \cdot C \cdot \left[\sqrt{B^2 \cdot (A + D)^2 + A^2 \cdot (A^2 + 6 \cdot A \cdot D + D^2)} - 2 \cdot A \cdot B \cdot (A + D)^2 - (A + D) \cdot (A - B) \right] \cdot \sqrt{A^2 \cdot N_u^4 \cdot (A + D)^2}} = 0$$



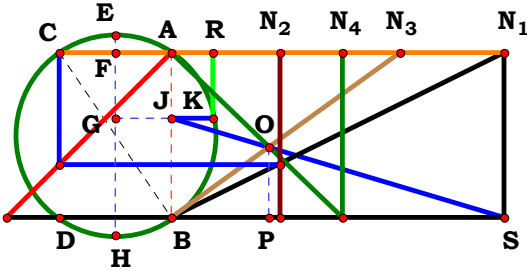
Unit. AB := 1 Given. $N_1 := 2.12828$ $N_2 := .77227$ $N_3 := .57360$
 $N_4 := .41626$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$
$$\frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (D-A) \cdot \sqrt{A \cdot B}}{\sqrt{A} \cdot \sqrt{N_u} \cdot \left[B \cdot D^2 \cdot (C-A+D)^2 - 4 \cdot B \cdot N_u^2 \cdot (A-D)^2 - 4 \cdot D \cdot N_u \cdot (A-B) \cdot (A-D) \cdot (C-A+D)\right] + D \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C-A+D)} = 0.291643$$

$$\text{Den} := \frac{\sqrt{A} \cdot \sqrt{N_u} \cdot \left[B \cdot D^2 \cdot (C-A+D)^2 - 4 \cdot B \cdot N_u^2 \cdot (A-D)^2 - 4 \cdot D \cdot N_u \cdot (A-B) \cdot (A-D) \cdot (C-A+D)\right] + D \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C-A+D)}{\sqrt{\left[\sqrt{A} \cdot \sqrt{N_u} \cdot \left[B \cdot D^2 \cdot (C-A+D)^2 - 4 \cdot B \cdot N_u^2 \cdot (A-D)^2 - 4 \cdot D \cdot N_u \cdot (A-B) \cdot (A-D) \cdot (C-A+D)\right] + D \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C-A+D)\right]^2}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}}^3 \cdot \sqrt{\left[\sqrt{\mathbf{A}} \cdot \sqrt{-\mathbf{N}_{\mathbf{u}}} \cdot \left[4 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{D})^2 - \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D})^2 + 4 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) \cdot (\mathbf{A} - \mathbf{D}) \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D}) \right] + \mathbf{D} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D}) \right]^2 \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot (\mathbf{D} - \mathbf{A})}}{\left[\sqrt{\mathbf{A}} \cdot \sqrt{-\mathbf{N}_{\mathbf{u}}} \cdot \left[4 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{D})^2 - \mathbf{B} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D})^2 + 4 \cdot \mathbf{D} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} - \mathbf{B}) \cdot (\mathbf{A} - \mathbf{D}) \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D}) \right] + \mathbf{D} \cdot \sqrt{\mathbf{N}_{\mathbf{u}}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D}) \right] \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{D} - \mathbf{A})^2}} = 0$$



N₁ = 2.01205
 N₂ = 0.65604
 N₃ = 1.38720
 N₄ = 1.03615
 R = 0.25654

Unit. AB := 1 Given. N₁ := 2.01205 N₂ := .65604 N₃ := 1.38720

N₄ := 1.03615

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

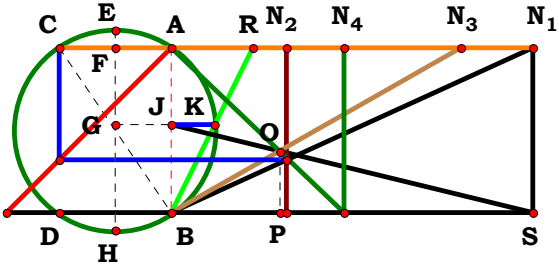
$$\frac{(A - C - D) \cdot (A - B) - \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}}{2 \cdot B \cdot (A - C - D)} = 0.256535$$

$$Num := \frac{(A - C - D) \cdot (A - B) - \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}}{\sqrt{\left[(A - C - D) \cdot (A - B) - \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)}\right]^2}}$$

$$Den := \frac{2 \cdot B \cdot (A - C - D)}{\sqrt{[2 \cdot B \cdot (A - C - D)]^2}} \quad L := \frac{Num}{Den}$$

$$Num = -1 \quad Den = -1 \quad L = 1$$

$$L - \frac{\sqrt{B^2 \cdot (C - A + D)^2} \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} + (A - B) \cdot (C - A + D)\right]}{B \cdot \sqrt{\left[\sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2)} + (A - B) \cdot (C - A + D)\right]^2} \cdot (C - A + D)} = 0$$



N₁ = 2.18639
N₂ = 0.69478
N₃ = 1.75526
N₄ = 1.04584
R = 0.49374

Unit. AB := 1 Given. N₁ := 2.18639 N₂ := .69478 N₃ := 1.75526

N₄ := 1.04584

$$\mathbf{N_u := 3} \quad \mathbf{A := \frac{N_u}{N_1}} \quad \mathbf{B := \frac{N_u}{N_2}} \quad \mathbf{C := \frac{N_u}{N_3}} \quad \mathbf{D := \frac{N_u}{N_4}}$$

Descriptions.

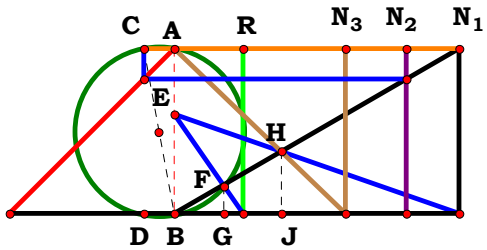
$$\frac{(C-A+D)\cdot(A-B)+\sqrt{C^2\cdot(A-B)^2-2\cdot C\cdot(A^2-2\cdot A\cdot B+3\cdot B^2)\cdot(A-D)+(A-D)^2\cdot(A-B)^2}}{2\cdot B\cdot C} = \mathbf{0.493733}$$

$$\mathbf{Num} := \frac{(C-A+D)\cdot(A-B)+\sqrt{C^2\cdot(A-B)^2-2\cdot C\cdot(A^2-2\cdot A\cdot B+3\cdot B^2)\cdot(A-D)+(A-D)^2\cdot(A-B)^2}}{\sqrt{\left[(C-A+D)\cdot(A-B)+\sqrt{C^2\cdot(A-B)^2-2\cdot C\cdot(A^2-2\cdot A\cdot B+3\cdot B^2)\cdot(A-D)+(A-D)^2\cdot(A-B)^2}\right]^2}}$$

$$\mathbf{Den} := \frac{2\cdot B\cdot C}{\sqrt{(2\cdot B\cdot C)^2}} \qquad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{Num = 1} \qquad \mathbf{Den = 1} \qquad \mathbf{L = 1}$$

$$\mathbf{L} - \frac{\sqrt{B^2\cdot C^2}\cdot\left[\sqrt{C^2\cdot(A-B)^2+(A-B)^2\cdot(A-D)^2-2\cdot C\cdot(A-D)\cdot(A^2-2\cdot A\cdot B+3\cdot B^2)}+(A-B)\cdot(C-A+D)\right]}{B\cdot C\cdot\sqrt{\left[\sqrt{C^2\cdot(A-B)^2+(A-B)^2\cdot(A-D)^2-2\cdot C\cdot(A-D)\cdot(A^2-2\cdot A\cdot B+3\cdot B^2)}+(A-B)\cdot(C-A+D)\right]^2}} = \mathbf{0}$$



$N_1 = 1.72148$
 $N_2 = 1.40185$
 $N_3 = 1.03851$
 $R = 0.41304$

Unit. $AB := 1$ Given. $N_1 := 1.72148$ $N_2 := 1.40185$ $N_3 := 1.03851$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u \cdot [A \cdot B + N_u \cdot (A - B)]}{A \cdot B \cdot (A - C) - N_u \cdot [C \cdot (A - B) - B \cdot N_u]} = 0.413038 \qquad Num := \frac{N_u \cdot [A \cdot B + N_u \cdot (A - B)]}{\sqrt{[N_u \cdot [A \cdot B + N_u \cdot (A - B)]]^2}}$$

$$Den := \frac{A \cdot B \cdot (A - C) - N_u \cdot [C \cdot (A - B) - B \cdot N_u]}{\sqrt{[A \cdot B \cdot (A - C) - N_u \cdot [C \cdot (A - B) - B \cdot N_u]]^2}} \qquad L := \frac{Num}{Den}$$

$Num = 1 \qquad Den = 1 \qquad L = 1$

$$L - \frac{N_u \cdot [A \cdot B + N_u \cdot (A - B)] \cdot \sqrt{[N_u \cdot [B \cdot N_u - C \cdot (A - B)] + A \cdot B \cdot (A - C)]^2}}{[N_u \cdot [B \cdot N_u - C \cdot (A - B)] + A \cdot B \cdot (A - C)] \cdot \sqrt{N_u^2 \cdot [A \cdot B + N_u \cdot (A - B)]^2}} = 0$$



Unit.

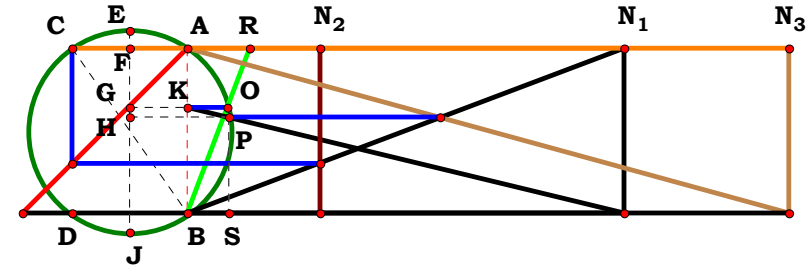
$AB := 1$

Given.

$N_1 := 2.64163$

$N_2 := .80133$

$N_3 := 3.64399$



$N_1 = 2.64163$

$N_2 = 0.80133$

$N_3 = 3.64399$

$R = 0.38058$

Descriptions.

$$AC := \frac{N_1 - N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

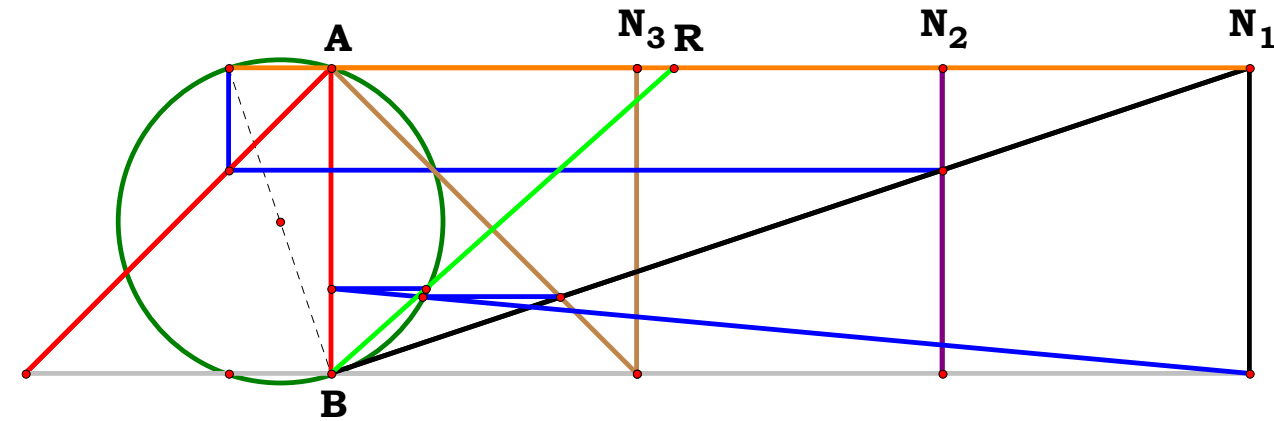
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.380582$$



$N_1 = 3.00000$

$N_2 = 2.00000$

$N_3 = 1.00000$

$R = 1.12112$

$AB = 1.00000$

$AC = 0.33333$

$EJ = 1.05409$

$AF = 0.16667$

$EF = 0.02705$

$PS = 0.25000$

$HJ = 0.27705$

$HP = 0.46398$

$BS = 0.29731$

$BK = 0.27750$

$GJ = 0.30455$

$GO = 0.47778$

$KO = 0.31111$

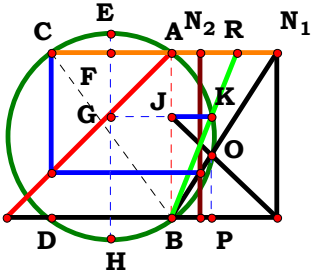
$R - \frac{KO}{BK} = 0.00000$

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1^2]}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



$N_1 = 0.63667$
 $N_2 = 0.17175$
 $R = 0.39564$

Unit. $AB := 1$ Given. $N_1 := .63667$ $N_2 := .17175$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2}$$

Descriptions.

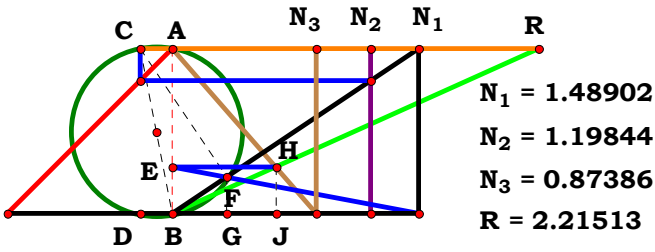
$$\frac{\sqrt{B^2 \cdot N_u^4 \cdot (A - B)^2 + \left[2 \cdot A \cdot B \cdot N_u^3 \cdot (2 \cdot A \cdot B - A^2 + B^2) - 12 \cdot A^3 \cdot B^3 \cdot N_u \right] \cdot (A - B) + A^2 \cdot N_u^2 \cdot (A^2 - 3 \cdot B^2) \cdot (A^2 - 4 \cdot A \cdot B + B^2) - 4 \cdot A^4 \cdot B^4 - N_u \cdot (A - B) \cdot (A^2 - B \cdot A - B \cdot N_u)}}{2 \cdot A \cdot B \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)} = 0.395642$$

$$Num := \frac{\sqrt{B^2 \cdot N_u^4 \cdot (A - B)^2 + \left[2 \cdot A \cdot B \cdot N_u^3 \cdot (2 \cdot A \cdot B - A^2 + B^2) - 12 \cdot A^3 \cdot B^3 \cdot N_u \right] \cdot (A - B) + A^2 \cdot N_u^2 \cdot (A^2 - 3 \cdot B^2) \cdot (A^2 - 4 \cdot A \cdot B + B^2) - 4 \cdot A^4 \cdot B^4 - N_u \cdot (A - B) \cdot (A^2 - B \cdot A - B \cdot N_u)}}{\sqrt{\left[\sqrt{B^2 \cdot N_u^4 \cdot (A - B)^2 + \left[2 \cdot A \cdot B \cdot N_u^3 \cdot (2 \cdot A \cdot B - A^2 + B^2) - 12 \cdot A^3 \cdot B^3 \cdot N_u \right] \cdot (A - B) + A^2 \cdot N_u^2 \cdot (A^2 - 3 \cdot B^2) \cdot (A^2 - 4 \cdot A \cdot B + B^2) - 4 \cdot A^4 \cdot B^4 - N_u \cdot (A - B) \cdot (A^2 - B \cdot A - B \cdot N_u)} \right]^2}}$$

$$Den := \frac{2 \cdot A \cdot B \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)}{\sqrt{\left[2 \cdot A \cdot B \cdot (A \cdot B + A \cdot N_u - B \cdot N_u) \right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{B^2 \cdot N_u^4 \cdot (A - B)^2 - \left[12 \cdot A^3 \cdot B^3 \cdot N_u - 2 \cdot A \cdot B \cdot N_u^3 \cdot (2 \cdot A \cdot B - A^2 + B^2) \right] \cdot (A - B) - 4 \cdot A^4 \cdot B^4 + A^2 \cdot N_u^2 \cdot (A^2 - 3 \cdot B^2) \cdot (A^2 - 4 \cdot A \cdot B + B^2)} \dots \right] \cdot \sqrt{A^2 \cdot B^2 \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)^2 + N_u \cdot (A - B) \cdot (B \cdot A - A^2 + B \cdot N_u)}}{A \cdot B \cdot \sqrt{\left[\sqrt{B^2 \cdot N_u^4 \cdot (A - B)^2 - \left[12 \cdot A^3 \cdot B^3 \cdot N_u - 2 \cdot A \cdot B \cdot N_u^3 \cdot (2 \cdot A \cdot B - A^2 + B^2) \right] \cdot (A - B) - 4 \cdot A^4 \cdot B^4 + A^2 \cdot N_u^2 \cdot (A^2 - 3 \cdot B^2) \cdot (A^2 - 4 \cdot A \cdot B + B^2)} \dots \right]^2 \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)}} = 0$$



Unit. AB := 1 Given. N₁ := 1.48902 N₂ := 1.19844 N₃ := .87386

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

Descriptions.

$$\frac{B \cdot N_u^3 - A \cdot N_u \cdot [A \cdot B + 2 \cdot N_u \cdot (A - B)]}{A \cdot C \cdot [A \cdot B + N_u \cdot (A - B)]} = 2.215187$$

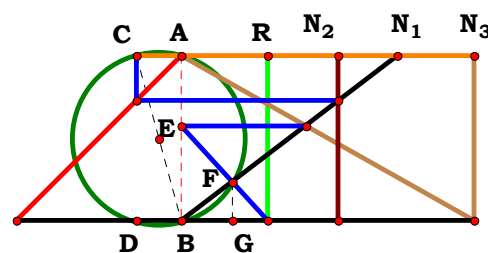
$$\text{Den} := \frac{A \cdot C \cdot [A \cdot B + N_u \cdot (A - B)]}{\sqrt{[A \cdot C \cdot [A \cdot B + N_u \cdot (A - B)]]^2}}$$

$$\text{Num} := \frac{B \cdot N_u^3 - A \cdot N_u \cdot [A \cdot B + 2 \cdot N_u \cdot (A - B)]}{\sqrt{[B \cdot N_u^3 - A \cdot N_u \cdot [A \cdot B + 2 \cdot N_u \cdot (A - B)]]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{[B \cdot N_u^3 - A \cdot N_u \cdot [A \cdot B + 2 \cdot N_u \cdot (A - B)]] \cdot \sqrt{A^2 \cdot C^2 \cdot [A \cdot B + N_u \cdot (A - B)]^2}}{A \cdot C \cdot [A \cdot B + N_u \cdot (A - B)] \cdot \sqrt{[B \cdot N_u^3 - A \cdot N_u \cdot [A \cdot B + 2 \cdot N_u \cdot (A - B)]]^2}} = 0$$



$N_1 = 1.30499$
 $N_2 = 0.94661$
 $N_3 = 1.77463$
 $R = 0.52676$

Unit. AB := 1 Given. $N_1 := 1.30499$ $N_2 := .94661$ $N_3 := 1.77463$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot (\mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{N_u} - \mathbf{B} \cdot \mathbf{N_u})}{\mathbf{B} \cdot \mathbf{N_u}^2 + (\mathbf{A} \cdot \mathbf{B} - \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{C}) \cdot \mathbf{N_u} - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}} = 0.526755$$

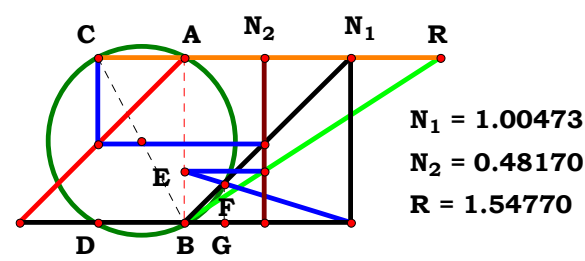
$$\text{Den} := \frac{\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + (\mathbf{A} \cdot \mathbf{B} - \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{C}) \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C}}{\sqrt{\left[\mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^2 + (\mathbf{A} \cdot \mathbf{B} - \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{C}) \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \right]^2}}$$

$$\mathbf{Num} := \frac{\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{[\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_u \cdot \sqrt{\left[\mathbf{B} \cdot \mathbf{N}_u^2 + (\mathbf{A} \cdot \mathbf{B} - \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{C}) \cdot \mathbf{N}_u - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \right]^2} \cdot (\mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{N}_u - \mathbf{B} \cdot \mathbf{N}_u)}{\sqrt{\mathbf{N}_u^2 \cdot (\mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{N}_u - \mathbf{B} \cdot \mathbf{N}_u)^2} \cdot \left[\mathbf{B} \cdot \mathbf{N}_u^2 + (\mathbf{A} \cdot \mathbf{B} - \mathbf{A}^2 - \mathbf{A} \cdot \mathbf{C} + \mathbf{B} \cdot \mathbf{C}) \cdot \mathbf{N}_u - \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{C} \right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.21782$ $N_2 := .86913$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u^2 \cdot (B \cdot A - A^2 + B \cdot N_u)}{A \cdot B \cdot [A \cdot B + N_u \cdot (A - B)]} = 2.444383$$

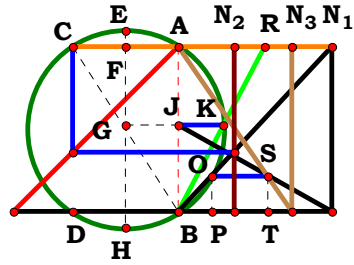
$$Num := \frac{N_u^2 \cdot (B \cdot A - A^2 + B \cdot N_u)}{\sqrt{[N_u^2 \cdot (B \cdot A - A^2 + B \cdot N_u)]^2}}$$

$$Den := \frac{A \cdot B \cdot [A \cdot B + N_u \cdot (A - B)]}{\sqrt{[A \cdot B \cdot [A \cdot B + N_u \cdot (A - B)]]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u^2 \cdot (B \cdot A - A^2 + B \cdot N_u) \cdot \sqrt{A^2 \cdot B^2 \cdot [A \cdot B + N_u \cdot (A - B)]^2}}{A \cdot B \cdot [A \cdot B + N_u \cdot (A - B)] \cdot \sqrt{N_u^4 \cdot (B \cdot A - A^2 + B \cdot N_u)^2}} = 0$$



$N_1 = 0.92724$
 $N_2 = 0.33641$
 $N_3 = 0.68983$
 $R = 0.52232$

Unit. $AB := 1$ Given. $N_1 := .92724$ $N_2 := .33641$ $N_3 := .68983$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

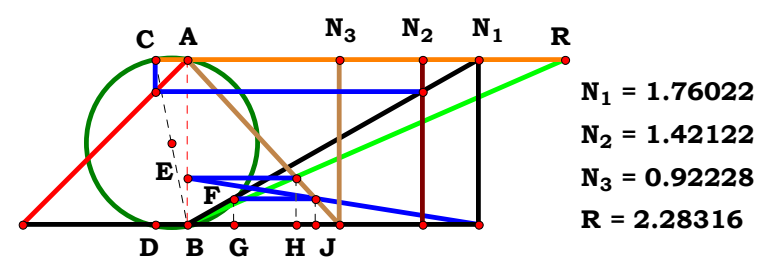
$$\frac{\sqrt{B^2 \cdot C^2 \cdot \left[N_u^2 \cdot (A - B) - A^3 + A^2 \cdot B + 2 \cdot A \cdot B \cdot N_u \right]^2 + A^2 \cdot N_u^2 \cdot (A - B)^2 \cdot \left(B \cdot A - A^2 + B \cdot N_u \right)^2 \dots + (A - B) \cdot \left[(B \cdot C - A \cdot B) \cdot N_u^2 + (A^3 - A^2 \cdot B) \cdot N_u + A^2 \cdot B \cdot C \right] + -2 \cdot A \cdot B \cdot C \cdot N_u \cdot \left(B \cdot A - A^2 + B \cdot N_u \right) \cdot \left[N_u^2 \cdot (A - B)^2 + A^2 \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2) + 2 \cdot A \cdot B \cdot N_u \cdot (A - B) \right]}}{2 \cdot A \cdot B \cdot C \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)} = 0.52231$$

$$\text{Num} := \frac{\sqrt{B^2 \cdot C^2 \cdot \left[N_u^2 \cdot (A - B) - A^3 + A^2 \cdot B + 2 \cdot A \cdot B \cdot N_u \right]^2 + A^2 \cdot N_u^2 \cdot (A - B)^2 \cdot \left(B \cdot A - A^2 + B \cdot N_u \right)^2 \dots + (A - B) \cdot \left[(B \cdot C - A \cdot B) \cdot N_u^2 + (A^3 - A^2 \cdot B) \cdot N_u + A^2 \cdot B \cdot C \right] + -2 \cdot A \cdot B \cdot C \cdot N_u \cdot \left(B \cdot A - A^2 + B \cdot N_u \right) \cdot \left[N_u^2 \cdot (A - B)^2 + A^2 \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2) + 2 \cdot A \cdot B \cdot N_u \cdot (A - B) \right]}}{\sqrt{\sqrt{B^2 \cdot C^2 \cdot \left[N_u^2 \cdot (A - B) - A^3 + A^2 \cdot B + 2 \cdot A \cdot B \cdot N_u \right]^2 + A^2 \cdot N_u^2 \cdot (A - B)^2 \cdot \left(B \cdot A - A^2 + B \cdot N_u \right)^2 \dots + (A - B) \cdot \left[(B \cdot C - A \cdot B) \cdot N_u^2 + (A^3 - A^2 \cdot B) \cdot N_u + A^2 \cdot B \cdot C \right] + -2 \cdot A \cdot B \cdot C \cdot N_u \cdot \left(B \cdot A - A^2 + B \cdot N_u \right) \cdot \left[N_u^2 \cdot (A - B)^2 + A^2 \cdot (A^2 - 2 \cdot A \cdot B + 3 \cdot B^2) + 2 \cdot A \cdot B \cdot N_u \cdot (A - B) \right]}}}^2$$

$$\text{Den} := \frac{2 \cdot A \cdot B \cdot C \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)}{\sqrt{[2 \cdot A \cdot B \cdot C \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\left[\sqrt{B^2 \cdot C^2 \cdot \left[N_u^2 \cdot (A - B) - A^3 + A^2 \cdot B + 2 \cdot A \cdot B \cdot N_u \right]^2 + A^2 \cdot N_u^2 \cdot (A - B)^2 \cdot \left(B \cdot A - A^2 + B \cdot N_u \right)^2 \dots + (A - B) \cdot \left[N_u \cdot (A^3 - A^2 \cdot B) - N_u^2 \cdot (A \cdot B - B \cdot C) + A^2 \cdot B \cdot C \right]} \right] \cdot \sqrt{A^2 \cdot B^2 \cdot C^2 \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)^2}}{\left[\sqrt{B^2 \cdot C^2 \cdot \left[N_u^2 \cdot (A - B) - A^3 + A^2 \cdot B + 2 \cdot A \cdot B \cdot N_u \right]^2 + A^2 \cdot N_u^2 \cdot (A - B)^2 \cdot \left(B \cdot A - A^2 + B \cdot N_u \right)^2 \dots + (A - B) \cdot \left[N_u \cdot (A^3 - A^2 \cdot B) - N_u^2 \cdot (A \cdot B - B \cdot C) + A^2 \cdot B \cdot C \right]} \right]^2 \cdot (A \cdot B + A \cdot N_u - B \cdot N_u)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.76022$ $N_2 := 1.42122$ $N_3 := .92228$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u^2 \cdot (A - C) \cdot (A^2 - B \cdot A - B \cdot N_u)}{A \cdot C^2 \cdot [A \cdot B + N_u \cdot (A - B)]} = 2.283148$$

$$\text{Num} := \frac{B \cdot (A - B)}{\sqrt{[B \cdot (A - B)]^2}}$$

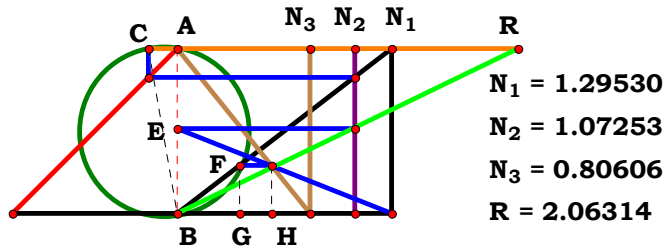
$$\text{Den} := \frac{A \cdot C^2 \cdot [A \cdot B + N_u \cdot (A - B)]}{\sqrt{[A \cdot C^2 \cdot [A \cdot B + N_u \cdot (A - B)]]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = -1$ $\text{Den} = 1$ $L = -1$

$L - \frac{\text{Num}}{\text{Den}} = 0$

$\frac{\text{Num}}{\text{Den}}$



Unit. $AB := 1$ Given. $N_1 := 1.29530$ $N_2 := 1.07253$ $N_3 := .80606$

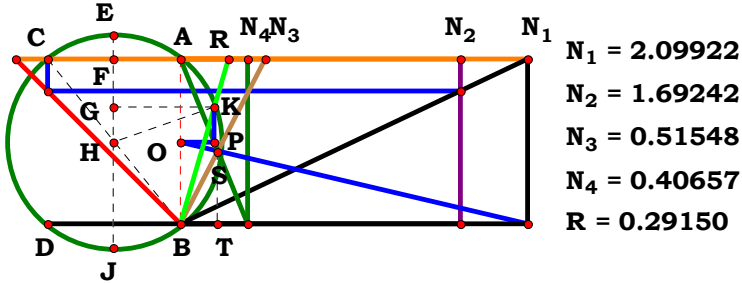
$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\begin{aligned}
 \frac{N_u^2 \cdot A^2 \cdot (A - B) - N_u^3 \cdot B \cdot (A - C) + A^2 \cdot B \cdot C \cdot N_u}{A \cdot B \cdot C \cdot [A \cdot B + N_u \cdot (A - B)]} &= 2.063124 & \text{Num} &:= \frac{N_u^2 \cdot A^2 \cdot (A - B) - N_u^3 \cdot B \cdot (A - C) + A^2 \cdot B \cdot C \cdot N_u}{\sqrt{[N_u^2 \cdot A^2 \cdot (A - B) - N_u^3 \cdot B \cdot (A - C) + A^2 \cdot B \cdot C \cdot N_u]^2}} \\
 \text{Den} &:= \frac{A \cdot B \cdot C \cdot [A \cdot B + N_u \cdot (A - B)]}{\sqrt{[A \cdot B \cdot C \cdot [A \cdot B + N_u \cdot (A - B)]]^2}} & \text{L} &:= \frac{\text{Num}}{\text{Den}}
 \end{aligned}$$

$\text{Num} = 1 \quad \text{Den} = 1 \quad \text{L} = 1$

$$\text{L} - \frac{[A^2 \cdot N_u^2 \cdot (A - B) - B \cdot N_u^3 \cdot (A - C) + A^2 \cdot B \cdot C \cdot N_u] \cdot \sqrt{A^2 \cdot B^2 \cdot C^2 \cdot [A \cdot B + N_u \cdot (A - B)]^2}}{A \cdot B \cdot C \cdot [A \cdot B + N_u \cdot (A - B)] \cdot \sqrt{[A^2 \cdot N_u^2 \cdot (A - B) - B \cdot N_u^3 \cdot (A - C) + A^2 \cdot B \cdot C \cdot N_u]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.69242$ $N_3 := .51548$
 $N_4 := .40657$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (A - D) \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{A} \cdot \sqrt{N_u} \cdot \left[B \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot B \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)\right]} = 0.291496$$

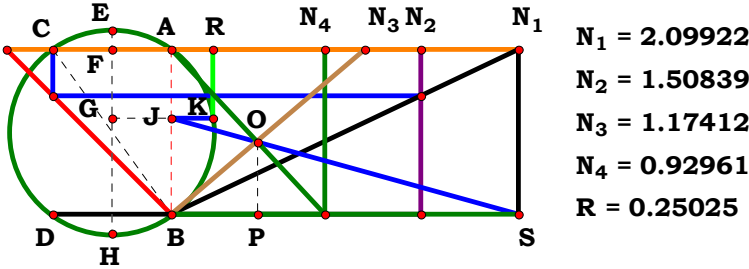
$$Num := \frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (A - D) \cdot \sqrt{A \cdot B}}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (A - D) \cdot \sqrt{A \cdot B}\right]^2}}$$

$$Den := \frac{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{A} \cdot \sqrt{N_u} \cdot \left[B \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot B \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)\right]}{\sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{A} \cdot \sqrt{N_u} \cdot \left[B \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot B \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)\right]\right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = -1 \quad Den = -1 \quad L = 1$$

$$L - \frac{N_u^{\frac{3}{2}} \cdot \sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{A} \cdot \sqrt{N_u} \cdot \left[B \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot B \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)\right]\right]^2} \cdot \sqrt{A \cdot B} \cdot (A - D)}{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{A} \cdot \sqrt{N_u} \cdot \left[B \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot B \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)\right]\right] \cdot \sqrt{A \cdot B \cdot N_u^3 \cdot (A - D)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.09922$ $N_2 := 1.50839$ $N_3 := 1.17412$

$N_4 := .92961$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{A \cdot (C - A + D) - \sqrt{A^2 \cdot C^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D) + A^2 \cdot (A - D)^2}}{2 \cdot B \cdot (A - C - D)} = 0.250248$$

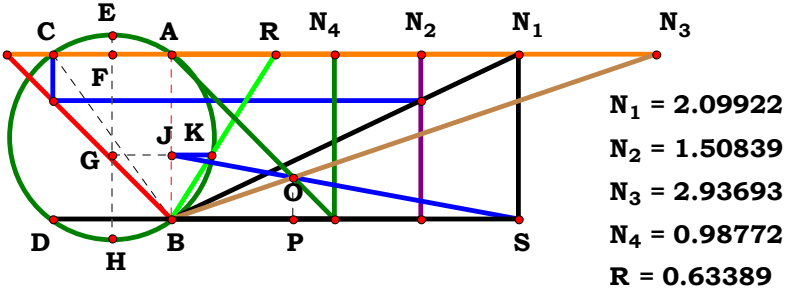
$$\text{Den} := \frac{2 \cdot B \cdot (A - C - D)}{\sqrt{[2 \cdot B \cdot (A - C - D)]^2}}$$

$$\text{Num} := \frac{A \cdot (C - A + D) - \sqrt{A^2 \cdot C^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D) + A^2 \cdot (A - D)^2}}{\sqrt{[A \cdot (C - A + D) - \sqrt{A^2 \cdot C^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D) + A^2 \cdot (A - D)^2}]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = -1 \quad \text{Den} = -1 \quad L = 1$$

$$L - \frac{\left[\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D) - A \cdot (C - A + D)}\right] \cdot \sqrt{B^2 \cdot (C - A + D)^2}}{B \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D) - A \cdot (C - A + D)}\right]^2 \cdot (C - A + D)}} = 0$$



Unit.

AB := 1

Given.

N₁ := 2.09922

N₂ := 1.50839

N₃ := 2.93693

N₄ := .98772

N_u := 3

A := $\frac{N_u}{N_1}$

B := $\frac{N_u}{N_2}$

C := $\frac{N_u}{N_3}$

D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{A \cdot (A - C - D) + \sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D)}}{2 \cdot B \cdot C}$$

= 0.633886

Num :=

$$\frac{A \cdot (A - C - D) + \sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D)}}{\sqrt{\left[A \cdot (A - C - D) + \sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D)}\right]^2}}$$

Den :=

$$\frac{2 \cdot B \cdot C}{\sqrt{(2 \cdot B \cdot C)^2}}$$

L :=

$$\frac{\text{Num}}{\text{Den}}$$

Num = 1

Den = 1

L = 1

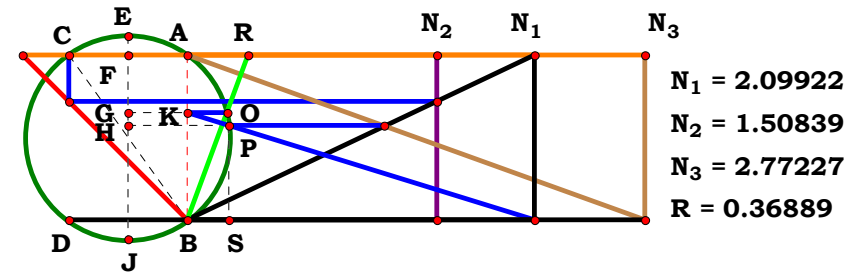
L -

$$\frac{\sqrt{B^2 \cdot C^2} \cdot \left[\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D)} - A \cdot (C - A + D)\right]}{B \cdot C \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A^2 + 2 \cdot B^2) \cdot (A - D)} - A \cdot (C - A + D)\right]^2}} = 0$$



Unit.
 AB := 1
 Given.
 N₁ := 2.09922

N₂ := 1.50839
 N₃ := 2.77227



Descriptions.

$$AC := \frac{N_2}{N_1} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

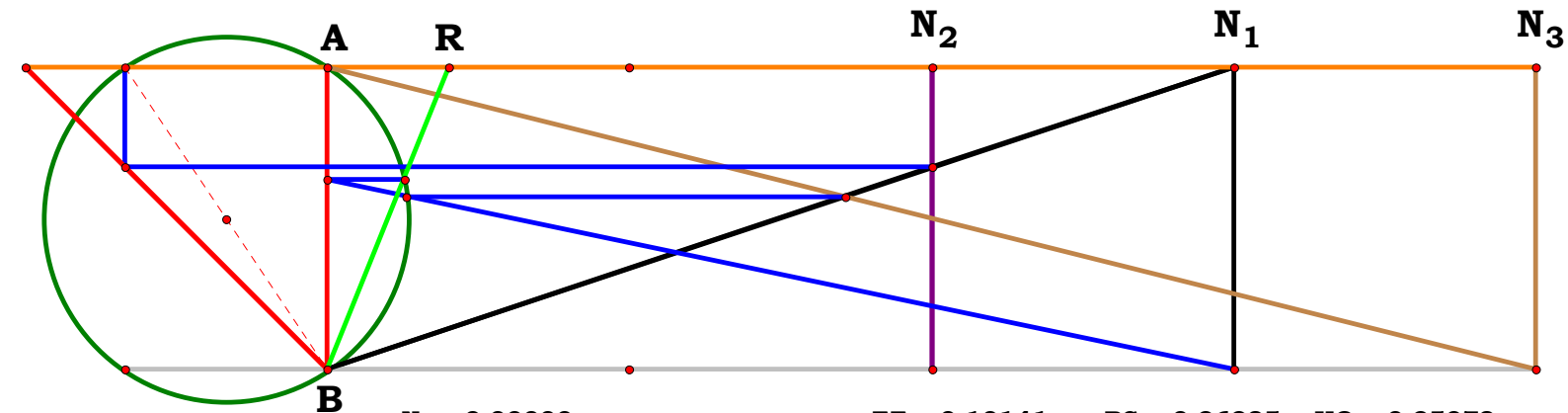
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.368893$$



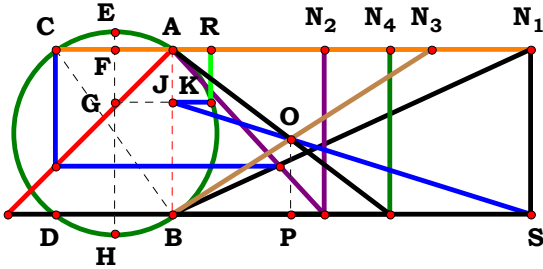
N ₁ = 3.00000	AC = 0.66841	EF = 0.10141	BS = 0.26295	KO = 0.25379
N ₂ = 2.00523	AB = 1.00000	PS = 0.57143	BK = 0.62633	$R - \frac{KO}{BK} = 0.00000$
N ₃ = 4.00000	EJ = 1.20282	HJ = 0.67284	GJ = 0.72773	
R = 0.40520	AF = 0.33420	HP = 0.59715	GO = 0.58799	

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1]^2}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



N₁ = 2.16702
N₂ = 0.91756
N₃ = 1.57123
N₄ = 1.31704
R = 0.23230

Unit. **AB** := 1 **Given.** **N₁** := 2.16702 **N₂** := .91756 **N₃** := 1.57123

N₄ := 1.31704

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

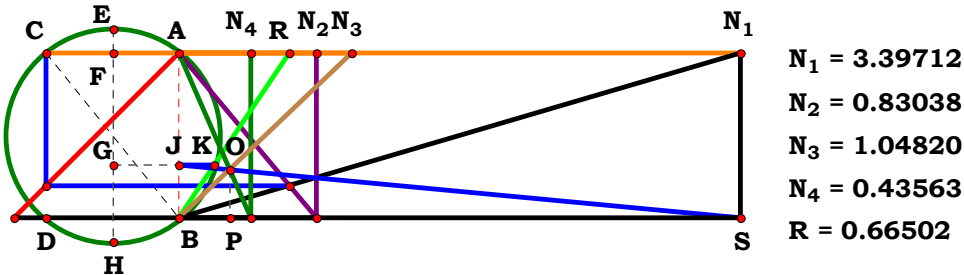
$$\frac{\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} + B \cdot (A - C - D)}{(A + B) \cdot (2 \cdot C - 2 \cdot A + 2 \cdot D)} = 0.232295$$

$$Num := \frac{\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} + B \cdot (A - C - D)}{\sqrt{\left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} + B \cdot (A - C - D)\right]^2}}$$

$$Den := \frac{(A + B) \cdot (2 \cdot C - 2 \cdot A + 2 \cdot D)}{\sqrt{[(A + B) \cdot (2 \cdot C - 2 \cdot A + 2 \cdot D)]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\sqrt{(A + B)^2 \cdot (2 \cdot C - 2 \cdot A + 2 \cdot D)^2 \cdot \left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C - A + D)\right]}}{\sqrt{\left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C - A + D)\right]^2 \cdot (A + B) \cdot (2 \cdot C - 2 \cdot A + 2 \cdot D)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.39712$ $N_2 := .83038$ $N_3 := 1.04820$

$N_4 := .43563$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3} \qquad D := \frac{N_u}{N_4}$$

Descriptions.

$$\frac{\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} + B \cdot (A - C - D)}{2 \cdot C \cdot (A + B)} = 0.665024$$

$$Num := \frac{\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} + B \cdot (A - C - D)}{\sqrt{\left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} + B \cdot (A - C - D)\right]^2}}$$

$$Den := \frac{2 \cdot C \cdot (A + B)}{\sqrt{\left[2 \cdot C \cdot (A + B)\right]^2}} \qquad L := \frac{Num}{Den}$$

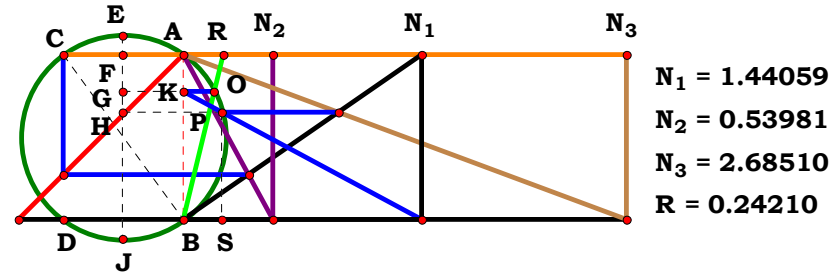
$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\sqrt{C^2 \cdot (A + B)^2} \cdot \left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C - A + D)\right]}{C \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)} - B \cdot (C - A + D)\right]^2} \cdot (A + B)} = 0$$



Unit.
 AB := 1
 Given.
 N₁ := 1.44059

N₂ := .53981
 N₃ := 2.68510



Descriptions.

$$AC := \frac{N_1}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

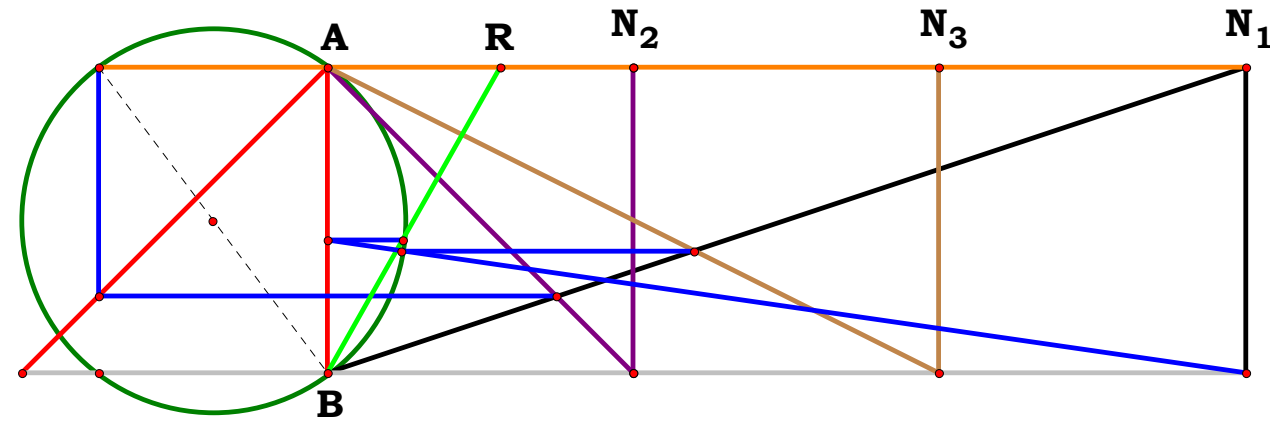
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.242104$$



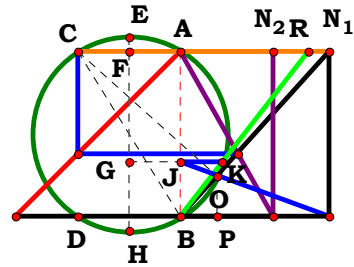
N ₁ = 3.00000	AB = 1.00000	EF = 0.12500	BS = 0.24195	KO = 0.24662
N ₂ = 1.00000	AC = 0.75000	PS = 0.40000	BK = 0.43509	R - $\frac{KO}{BK}$ = 0.00000
N ₃ = 2.00000	EJ = 1.25000	HJ = 0.52500	GJ = 0.56009	
R = 0.56683	AF = 0.37500	HP = 0.61695	GO = 0.62162	

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1]^2}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



Unit. AB := 1 **Given.** $N_1 := .89818$ $N_2 := .55918$

$N_1 = 0.89818$
 $N_2 = 0.55918$
 $R = 0.77237$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

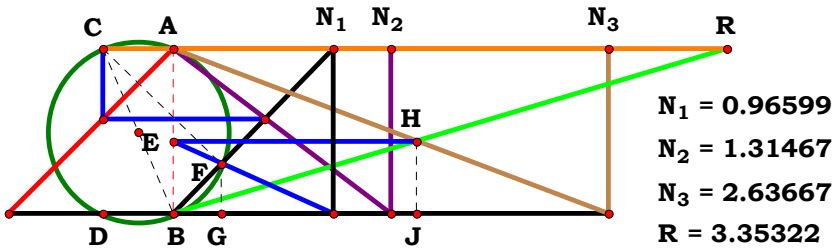
$$\sqrt{\frac{\mathbf{N_u}^4 \cdot \mathbf{B}^2 \cdot (\mathbf{A} + \mathbf{B})^2 - 2 \cdot \mathbf{N_u}^3 \cdot \mathbf{A} \cdot \mathbf{B} \cdot (\mathbf{A} + \mathbf{B}) \cdot (2 \cdot \mathbf{A}^2 + 4 \cdot \mathbf{A} \cdot \mathbf{B} + \mathbf{B}^2) \dots - \mathbf{B} \cdot \mathbf{N_u} \cdot [\mathbf{A} \cdot \mathbf{B} + \mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})]}{+ \mathbf{N_u}^2 \cdot \mathbf{A}^2 \cdot (2 \cdot \mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - \mathbf{B}^2) \cdot (2 \cdot \mathbf{A}^2 + 6 \cdot \mathbf{A} \cdot \mathbf{B} + 3 \cdot \mathbf{B}^2) + 12 \cdot \mathbf{N_u} \cdot \mathbf{A}^3 \cdot \mathbf{B} \cdot (\mathbf{A} + \mathbf{B})^3 - 4 \cdot \mathbf{A}^4 \cdot (\mathbf{A} + \mathbf{B})^4}}{2 \cdot \mathbf{A} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 + \mathbf{B} \cdot \mathbf{A} - \mathbf{B} \cdot \mathbf{N_u})}} = \mathbf{0.772363}$$

$$\text{Num} := \frac{\sqrt{N_u^4 \cdot B^2 \cdot (A+B)^2 - 2 \cdot N_u^3 \cdot A \cdot B \cdot (A+B) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2) \dots - B \cdot N_u \cdot [A \cdot B + N_u \cdot (A+B)] + N_u^2 \cdot A^2 \cdot (2 \cdot A^2 + 2 \cdot A \cdot B - B^2) \cdot (2 \cdot A^2 + 6 \cdot A \cdot B + 3 \cdot B^2) + 12 \cdot N_u \cdot A^3 \cdot B \cdot (A+B)^3 - 4 \cdot A^4 \cdot (A+B)^4}}{\sqrt{\sqrt{N_u^4 \cdot B^2 \cdot (A+B)^2 - 2 \cdot N_u^3 \cdot A \cdot B \cdot (A+B) \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2) \dots - B \cdot N_u \cdot [A \cdot B + N_u \cdot (A+B)] + N_u^2 \cdot A^2 \cdot (2 \cdot A^2 + 2 \cdot A \cdot B - B^2) \cdot (2 \cdot A^2 + 6 \cdot A \cdot B + 3 \cdot B^2) + 12 \cdot N_u \cdot A^3 \cdot B \cdot (A+B)^3 - 4 \cdot A^4 \cdot (A+B)^4}}}$$

$$\text{Den} := \frac{2 \cdot \mathbf{A} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 + \mathbf{B} \cdot \mathbf{A} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{\left[2 \cdot \mathbf{A} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A}^2 + \mathbf{B} \cdot \mathbf{A} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})\right]^2}} \quad \mathbf{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\left[\sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 \cdot (\mathbf{A} + \mathbf{B})^2 - 4 \cdot \mathbf{A}^4 \cdot (\mathbf{A} + \mathbf{B})^4 + 12 \cdot \mathbf{A}^3 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})^3 \dots} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{B}] \right] \cdot \sqrt{\mathbf{A}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{A}^2 + \mathbf{B} \cdot \mathbf{A} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2} + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (2 \cdot \mathbf{A}^2 + 2 \cdot \mathbf{A} \cdot \mathbf{B} - \mathbf{B}^2) \cdot (2 \cdot \mathbf{A}^2 + 6 \cdot \mathbf{A} \cdot \mathbf{B} + 3 \cdot \mathbf{B}^2) - 2 \cdot \mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} + \mathbf{B}) \cdot (2 \cdot \mathbf{A}^2 + 4 \cdot \mathbf{A} \cdot \mathbf{B} + \mathbf{B}^2)}{\mathbf{A} \cdot (\mathbf{A} + \mathbf{B}) \cdot \left[\sqrt{\sqrt{\mathbf{B}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 \cdot (\mathbf{A} + \mathbf{B})^2 - 4 \cdot \mathbf{A}^4 \cdot (\mathbf{A} + \mathbf{B})^4 + 12 \cdot \mathbf{A}^3 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})^3 \dots} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \cdot [\mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A} \cdot \mathbf{B}]}^2 \cdot (\mathbf{A}^2 + \mathbf{B} \cdot \mathbf{A} - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})} \right]} = 0$$



Unit. **AB** := 1 Given. **N₁** := .96599 **N₂** := 1.31467 **N₃** := 2.63667

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$

Descriptions.

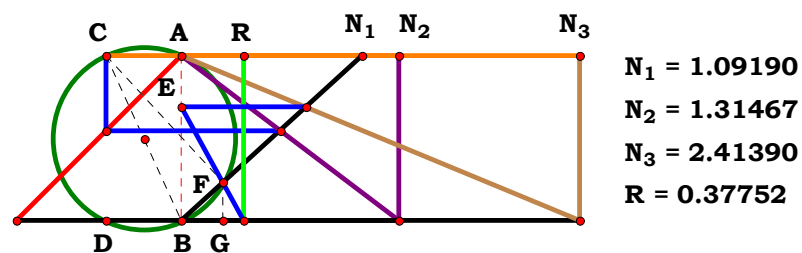
$$\frac{N_u \cdot \left[A \cdot \left(N_u^2 - B \cdot A - A^2 \right) + B \cdot N_u \cdot \left(2 \cdot A + N_u \right) \right]}{A \cdot C \cdot \left(A^2 + B \cdot A - B \cdot N_u \right)} = 3.353318$$

$$\text{Num} := \frac{N_u \cdot \left[A \cdot \left(N_u^2 - B \cdot A - A^2 \right) + B \cdot N_u \cdot \left(2 \cdot A + N_u \right) \right]}{\sqrt{\left[N_u \cdot \left[A \cdot \left(N_u^2 - B \cdot A - A^2 \right) + B \cdot N_u \cdot \left(2 \cdot A + N_u \right) \right] \right]^2}}$$

$$\text{Den} := \frac{A \cdot C \cdot \left(A^2 + B \cdot A - B \cdot N_u \right)}{\sqrt{\left[A \cdot C \cdot \left(A^2 + B \cdot A - B \cdot N_u \right) \right]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 **Den** = 1 **L** = 1

$$\text{L} - \frac{A \cdot C \cdot \sqrt{N_u^2 \cdot \left[A \cdot \left(N_u^2 - B \cdot A - A^2 \right) + B \cdot N_u \cdot \left(2 \cdot A + N_u \right) \right]^2} \cdot \left(A^2 + B \cdot A - B \cdot N_u \right)}{N_u \cdot \left[A \cdot \left(N_u^2 - B \cdot A - A^2 \right) + B \cdot N_u \cdot \left(2 \cdot A + N_u \right) \right] \cdot \sqrt{A^2 \cdot C^2 \cdot \left(A^2 + B \cdot A - B \cdot N_u \right)^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 1.09190$ $N_2 := 1.31467$ $N_3 := 2.41390$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{N_u \cdot [A^2 + B \cdot (A - N_u)]}{N_u^2 \cdot (A + B) + N_u \cdot B \cdot (A + C) - A \cdot C \cdot (A + B)} = 0.37752$$

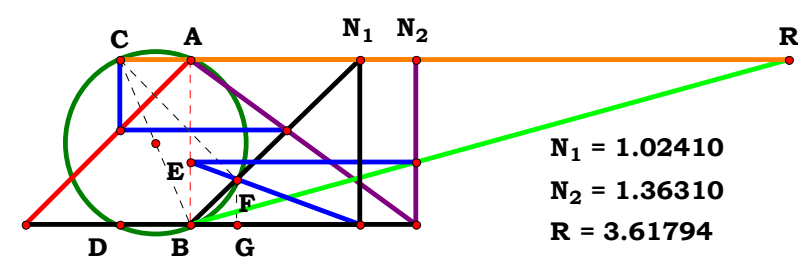
$$\text{Num} := \frac{N_u \cdot [A^2 + B \cdot (A - N_u)]}{\sqrt{[N_u \cdot [A^2 + B \cdot (A - N_u)]]^2}}$$

$$\text{Den} := \frac{N_u^2 \cdot (A + B) + N_u \cdot B \cdot (A + C) - A \cdot C \cdot (A + B)}{\sqrt{[N_u^2 \cdot (A + B) + N_u \cdot B \cdot (A + C) - A \cdot C \cdot (A + B)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot (\mathbf{A} + \mathbf{C}) \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \right]^2} \cdot \left[\mathbf{A}^2 + \mathbf{B} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}}) \right]}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot \left[\mathbf{A}^2 + \mathbf{B} \cdot (\mathbf{A} - \mathbf{N}_{\mathbf{u}}) \right]^2} \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{N}_{\mathbf{u}}^2 + \mathbf{B} \cdot (\mathbf{A} + \mathbf{C}) \cdot \mathbf{N}_{\mathbf{u}} - \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \right]} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.02410$ $N_2 := 1.36310$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u^2 \cdot [A \cdot B + N_u \cdot (A + B)]}{A \cdot B \cdot (A^2 + B \cdot A - B \cdot N_u)} = 3.617938$$

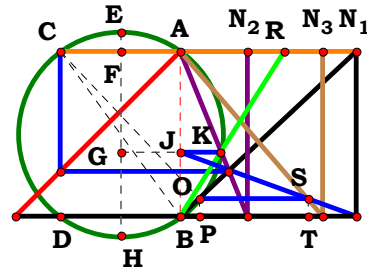
$$Num := \frac{N_u^2 \cdot [A \cdot B + N_u \cdot (A + B)]}{\sqrt{[N_u^2 \cdot [A \cdot B + N_u \cdot (A + B)]]^2}}$$

$$Den := \frac{A \cdot B \cdot (A^2 + B \cdot A - B \cdot N_u)}{\sqrt{[A \cdot B \cdot (A^2 + B \cdot A - B \cdot N_u)]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{N_u^2 \cdot [N_u \cdot (A + B) + A \cdot B] \cdot \sqrt{A^2 \cdot B^2 \cdot (A^2 + B \cdot A - B \cdot N_u)^2}}{A \cdot B \cdot \sqrt{N_u^4 \cdot [N_u \cdot (A + B) + A \cdot B]^2 \cdot (A^2 + B \cdot A - B \cdot N_u)}} = 0$$



$N_1 = 1.06284$
 $N_2 = 0.40421$
 $N_3 = 0.86417$
 $R = 0.62545$

Unit. $AB := 1$ Given. $N_1 := 1.06284$ $N_2 := .40421$ $N_3 := .86417$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\sqrt{\frac{C^2 \cdot (A+B)^2 \cdot \left[2 \cdot N_u \cdot A \cdot (A+B) + A^2 \cdot B - B \cdot N_u^2 \right]^2 + A^2 \cdot B^2 \cdot N_u^2 \cdot (A \cdot B + A \cdot N_u + B \cdot N_u)^2 \dots + \left[N_u^2 \cdot B \cdot (A-C) \cdot (A+B) + A^2 \cdot B^2 \cdot N_u - A^2 \cdot B \cdot C \cdot (A+B) \right]}{+ -2 \cdot C \cdot A \cdot N_u \cdot (A+B) \cdot [A \cdot B + N_u \cdot (A+B)] \cdot [B^2 \cdot N_u^2 - 2 \cdot N_u \cdot A \cdot B \cdot (A+B) + A^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)]}} = 0.625446$$

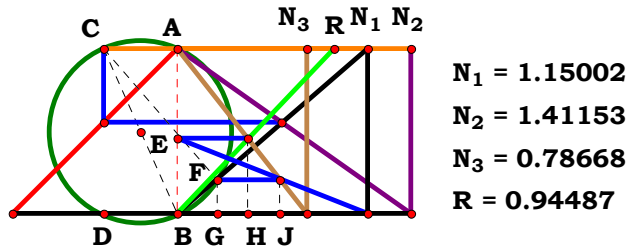
$$2 \cdot A \cdot C \cdot (A+B) \cdot (A^2 + B \cdot A - B \cdot N_u)$$

$$\text{Num} := \frac{\sqrt{C^2 \cdot (A+B)^2 \cdot \left[2 \cdot N_u \cdot A \cdot (A+B) + A^2 \cdot B - B \cdot N_u^2 \right]^2 + A^2 \cdot B^2 \cdot N_u^2 \cdot (A \cdot B + A \cdot N_u + B \cdot N_u)^2 \dots + \left[N_u^2 \cdot B \cdot (A-C) \cdot (A+B) + A^2 \cdot B^2 \cdot N_u - A^2 \cdot B \cdot C \cdot (A+B) \right]}{+ -2 \cdot C \cdot A \cdot N_u \cdot (A+B) \cdot [A \cdot B + N_u \cdot (A+B)] \cdot [B^2 \cdot N_u^2 - 2 \cdot N_u \cdot A \cdot B \cdot (A+B) + A^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)]}}{\sqrt{\sqrt{C^2 \cdot (A+B)^2 \cdot \left[2 \cdot N_u \cdot A \cdot (A+B) + A^2 \cdot B - B \cdot N_u^2 \right]^2 + A^2 \cdot B^2 \cdot N_u^2 \cdot (A \cdot B + A \cdot N_u + B \cdot N_u)^2 \dots + \left[N_u^2 \cdot B \cdot (A-C) \cdot (A+B) + A^2 \cdot B^2 \cdot N_u - A^2 \cdot B \cdot C \cdot (A+B) \right]}{+ -2 \cdot C \cdot A \cdot N_u \cdot (A+B) \cdot [A \cdot B + N_u \cdot (A+B)] \cdot [B^2 \cdot N_u^2 - 2 \cdot N_u \cdot A \cdot B \cdot (A+B) + A^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2)]}}^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot C \cdot (A+B) \cdot (A^2 + B \cdot A - B \cdot N_u)}{\sqrt{[2 \cdot A \cdot C \cdot (A+B) \cdot (A^2 + B \cdot A - B \cdot N_u)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\left[\sqrt{C^2 \cdot (A+B)^2 \cdot \left[A^2 \cdot B - B \cdot N_u^2 + 2 \cdot A \cdot N_u \cdot (A+B) \right]^2 + A^2 \cdot B^2 \cdot N_u^2 \cdot (A \cdot B + A \cdot N_u + B \cdot N_u)^2 \dots + \left[N_u^2 \cdot B \cdot (A-C) \cdot (A+B) + A^2 \cdot B^2 \cdot N_u - A^2 \cdot B \cdot C \cdot (A+B) + B \cdot N_u^2 \cdot (A+B) \cdot (A-C) \right]}{+ -2 \cdot A \cdot C \cdot N_u \cdot (A+B) \cdot [N_u \cdot (A+B) + A \cdot B] \cdot [A^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2) + B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u \cdot (A+B)]} \dots \right] \cdot \sqrt{A^2 \cdot C^2 \cdot (A+B)^2 \cdot (A^2 + B \cdot A - B \cdot N_u)^2}}{A \cdot C \cdot (A+B) \cdot \sqrt{\sqrt{C^2 \cdot (A+B)^2 \cdot \left[A^2 \cdot B - B \cdot N_u^2 + 2 \cdot A \cdot N_u \cdot (A+B) \right]^2 + A^2 \cdot B^2 \cdot N_u^2 \cdot (A \cdot B + A \cdot N_u + B \cdot N_u)^2 \dots + \left[N_u^2 \cdot B \cdot (A-C) \cdot (A+B) + A^2 \cdot B^2 \cdot N_u - A^2 \cdot B \cdot C \cdot (A+B) + B \cdot N_u^2 \cdot (A+B) \cdot (A-C) \right]}{+ -2 \cdot A \cdot C \cdot N_u \cdot (A+B) \cdot [N_u \cdot (A+B) + A \cdot B] \cdot [A^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + 3 \cdot B^2) + B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot N_u \cdot (A+B)]} \dots}^2 \cdot (A^2 + B \cdot A - B \cdot N_u)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.15002$ $N_2 := 1.41153$ $N_3 := .78668$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u^2 \cdot (C - A) \cdot [A \cdot B + N_u \cdot (A + B)]}{A \cdot C^2 \cdot (A^2 + B \cdot A - B \cdot N_u)} = 0.944894$$

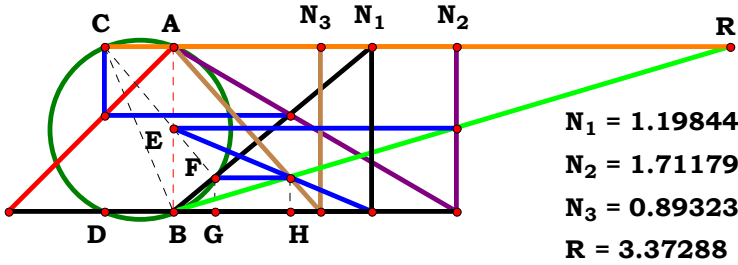
$$\text{Den} := \frac{A \cdot C^2 \cdot (A^2 + B \cdot A - B \cdot N_u)}{\sqrt{[A \cdot C^2 \cdot (A^2 + B \cdot A - B \cdot N_u)]^2}}$$

$$\text{Num} := \frac{N_u^2 \cdot (C - A) \cdot [A \cdot B + N_u \cdot (A + B)]}{\sqrt{[N_u^2 \cdot (C - A) \cdot [A \cdot B + N_u \cdot (A + B)]]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u^2 \cdot [N_u \cdot (A + B) + A \cdot B] \cdot (C - A) \cdot \sqrt{A^2 \cdot C^4 \cdot (A^2 + B \cdot A - B \cdot N_u)^2}}{A \cdot C^2 \cdot \sqrt{N_u^4 \cdot [N_u \cdot (A + B) + A \cdot B]^2 \cdot (A - C)^2 \cdot (A^2 + B \cdot A - B \cdot N_u)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.19844$ $N_2 := 1.71179$ $N_3 := .89323$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

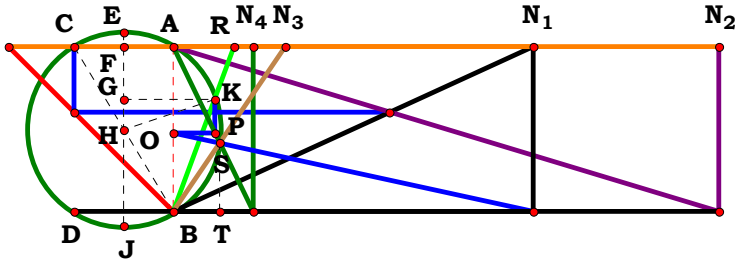
$$\frac{N_u \cdot A^2 \cdot C \cdot (A + B) - N_u^3 \cdot (A - C) \cdot (A + B) - A^2 \cdot B \cdot N_u^2}{A \cdot B \cdot C \cdot (A^2 + B \cdot A - B \cdot N_u)} = 3.372825$$

$$Num := \frac{N_u \cdot A^2 \cdot C \cdot (A + B) - N_u^3 \cdot (A - C) \cdot (A + B) - A^2 \cdot B \cdot N_u^2}{\sqrt{\left[N_u \cdot A^2 \cdot C \cdot (A + B) - N_u^3 \cdot (A - C) \cdot (A + B) - A^2 \cdot B \cdot N_u^2\right]^2}}$$

$$Den := \frac{A \cdot B \cdot C \cdot (A^2 + B \cdot A - B \cdot N_u)}{\sqrt{\left[A \cdot B \cdot C \cdot (A^2 + B \cdot A - B \cdot N_u)\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[N_u \cdot A^2 \cdot C \cdot (A + B) - N_u^3 \cdot (A - C) \cdot (A + B) - A^2 \cdot B \cdot N_u^2\right] \cdot \sqrt{A^2 \cdot B^2 \cdot C^2 \cdot (A^2 + B \cdot A - B \cdot N_u)^2}}{A \cdot B \cdot C \cdot \sqrt{\left[N_u \cdot A^2 \cdot C \cdot (A + B) - N_u^3 \cdot (A - C) \cdot (A + B) - A^2 \cdot B \cdot N_u^2\right]^2} \cdot (A^2 + B \cdot A - B \cdot N_u)} = 0$$



N₁ = 2.17671
N₂ = 3.30026
N₃ = 0.68014
N₄ = 0.48406
R = 0.36955

Unit. AB := 1 Given. N₁ := 2.17671 N₂ := 3.30026 N₃ := .68014
N₄ := .48406

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$ D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B) \cdot (A - D)}}{\sqrt{A \cdot N_u + B \cdot N_u} \cdot D \cdot (A - C - D) - \sqrt{N_u \cdot \left[D^2 \cdot (A + B) \cdot (C - A + D)^2 - 4 \cdot N_u^2 \cdot (A + B) \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D) \right]}} = 0.369547$$

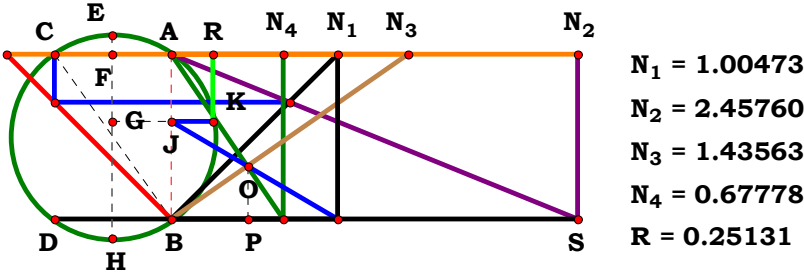
$$\text{Num} := \frac{2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B) \cdot (A - D)}}{\sqrt{\left[2 \cdot N_u \cdot \sqrt{N_u \cdot (A + B) \cdot (A - D)} \right]^2}}$$

$$\text{Den} := \frac{\sqrt{A \cdot N_u + B \cdot N_u} \cdot D \cdot (A - C - D) - \sqrt{N_u \cdot \left[D^2 \cdot (A + B) \cdot (C - A + D)^2 - 4 \cdot N_u^2 \cdot (A + B) \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D) \right]}}{\sqrt{\left[\sqrt{A \cdot N_u + B \cdot N_u} \cdot D \cdot (A - C - D) - \sqrt{N_u \cdot \left[D^2 \cdot (A + B) \cdot (C - A + D)^2 - 4 \cdot N_u^2 \cdot (A + B) \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D) \right]} \right]^2}}$$

$$\text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = -1 Den = -1 L = 1

$$\text{L} - \frac{N_u \cdot \sqrt{N_u \cdot (A + B) \cdot (A - D)} \cdot \sqrt{\left[\sqrt{N_u \cdot \left[D^2 \cdot (A + B) \cdot (C - A + D)^2 - 4 \cdot N_u^2 \cdot (A + B) \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D) \right]} + D \cdot \sqrt{A \cdot N_u + B \cdot N_u} \cdot (C - A + D) \right]^2}}{\left[\sqrt{A \cdot N_u + B \cdot N_u} \cdot D \cdot (A - C - D) - \sqrt{N_u \cdot \left[D^2 \cdot (A + B) \cdot (C - A + D)^2 - 4 \cdot N_u^2 \cdot (A + B) \cdot (A - D)^2 + 4 \cdot A \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D) \right]} \right] \cdot \sqrt{N_u^3 \cdot (A + B) \cdot (A - D)^2}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.00473 \quad N_2 := 2.45760 \quad N_3 := 1.43563$$

$$N_4 := .67778$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

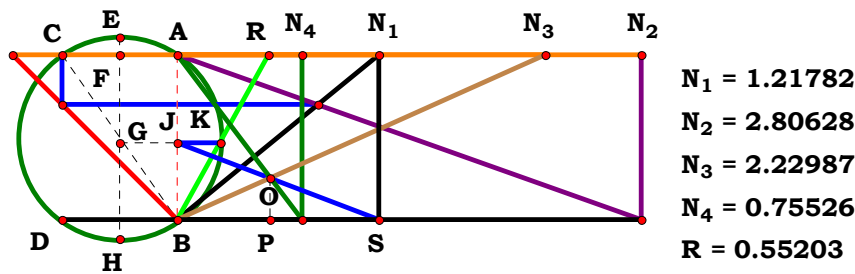
$$\frac{A \cdot (C - A + D) - \sqrt{A^2 \cdot C^2 - 2 \cdot C \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) \cdot (A - D) + A^2 \cdot (A - D)^2}}{2 \cdot (A - C - D) \cdot (A + B)} = 0.251311$$

$$\text{Num} := \frac{A \cdot (C - A + D) - \sqrt{A^2 \cdot C^2 - 2 \cdot C \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) \cdot (A - D) + A^2 \cdot (A - D)^2}}{\sqrt{\left[A \cdot (C - A + D) - \sqrt{A^2 \cdot C^2 - 2 \cdot C \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) \cdot (A - D) + A^2 \cdot (A - D)^2}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot (A - C - D) \cdot (A + B)}{\sqrt{\left[2 \cdot (A - C - D) \cdot (A + B)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = -1 \quad \text{Den} = -1 \quad L = 1$$

$$L - \frac{\sqrt{(A + B)^2 \cdot (2 \cdot C - 2 \cdot A + 2 \cdot D)^2 \cdot \left[\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C - A + D)\right]}}{\sqrt{\left[\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C - A + D)\right]^2 \cdot (A + B) \cdot (2 \cdot C - 2 \cdot A + 2 \cdot D)}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.21782 \quad N_2 := 2.80628 \quad N_3 := 2.22987$$

$$N_4 := .75526$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

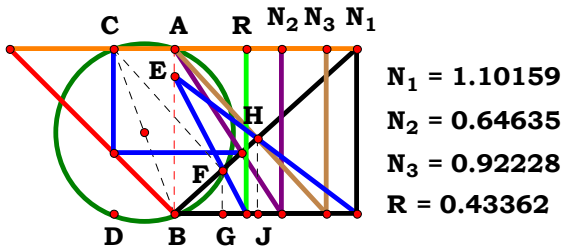
$$\frac{\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} + A \cdot (A - C - D)}{2 \cdot C \cdot (A + B)} = 0.552031$$

$$\text{Num} := \frac{\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} + A \cdot (A - C - D)}{\sqrt{\left[\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} + A \cdot (A - C - D)\right]^2}}$$

$$\text{Den} := \frac{2 \cdot C \cdot (A + B)}{\sqrt{[2 \cdot C \cdot (A + B)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\sqrt{C^2 \cdot (A + B)^2 \cdot \left[\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C - A + D)\right]}}{C \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + A^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C - A + D)\right]^2} \cdot (A + B)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.10159$ $N_2 := .64635$ $N_3 := .92228$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{A \cdot N_u \cdot (A + B - N_u)}{(A^2 + N_u^2) \cdot (A + B) - C \cdot A \cdot (A + B - N_u)} = 0.433618$$

$$\text{Den} := \frac{(A^2 + N_u^2) \cdot (A + B) - C \cdot A \cdot (A + B - N_u)}{\sqrt{[(A^2 + N_u^2) \cdot (A + B) - C \cdot A \cdot (A + B - N_u)]^2}}$$

$$\text{Num} := \frac{A \cdot N_u \cdot (A + B - N_u)}{\sqrt{[A \cdot N_u \cdot (A + B - N_u)]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{A \cdot N_u \cdot \sqrt{[(A^2 + N_u^2) \cdot (A + B) - A \cdot C \cdot (A + B - N_u)]^2} \cdot (A + B - N_u)}{[(A^2 + N_u^2) \cdot (A + B) - A \cdot C \cdot (A + B - N_u)] \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A + B - N_u)^2}} = 0$$



Unit.

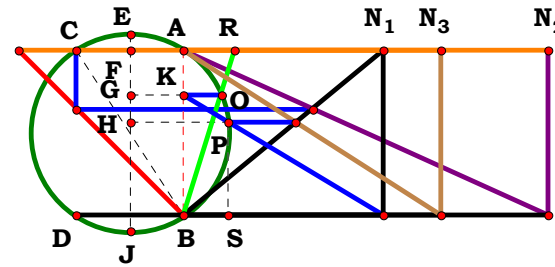
$AB := 1$

Given.

$N_1 := 1.20813$

$N_2 := 2.20577$

$N_3 := 1.56155$



$N_1 = 1.20813$

$N_2 = 2.20577$

$N_3 = 1.56155$

$R = 0.31444$

Descriptions.

$$AC := \frac{N_2}{N_1 + N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

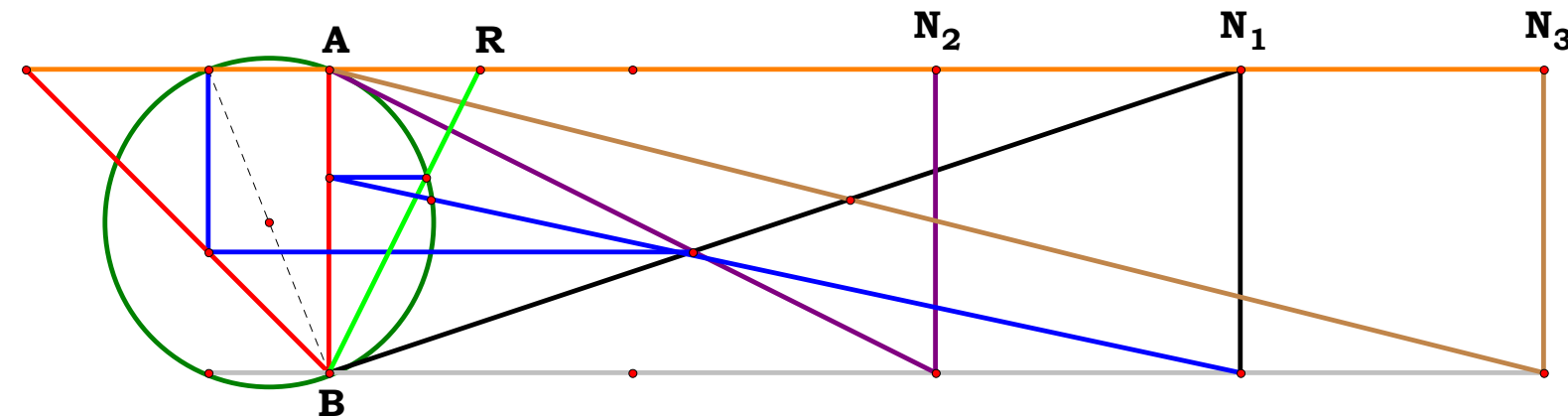
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.314439$$



$N_1 = 3.00000$

$N_2 = 2.00000$

$N_3 = 4.00000$

$R = 0.49645$

$AB = 1.00000$

$AC = 0.40000$

$EJ = 1.07703$

$AF = 0.20000$

$EF = 0.03852$

$PS = 0.57143$

$HJ = 0.60995$

$HP = 0.53376$

$BS = 0.33376$

$BK = 0.64296$

$GJ = 0.68148$

$GO = 0.51919$

$KO = 0.31919$

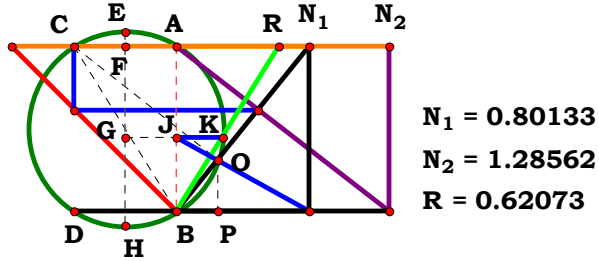
$R - \frac{KO}{BK} = 0.00000$

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1^2]}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



Unit. $AB := 1$ Given. $N_1 := .80133$ $N_2 := 1.28562$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2}$$

Descriptions.

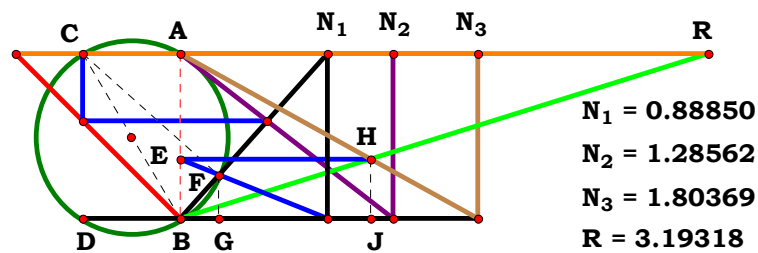
$$\frac{\sqrt{N_u^4 \cdot (A+B)^2 - 2 \cdot N_u^3 \cdot (A+B) \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) + N_u^2 \cdot (16 \cdot A^2 \cdot B^2 - 3 \cdot A^4 + 16 \cdot A \cdot B^3 + 4 \cdot B^4) - 4 \cdot A^2 \cdot (A+B)^3 \cdot (A+B - 3 \cdot N_u) - N_u \cdot (A^2 + N_u \cdot A + B \cdot N_u)}}{2 \cdot A \cdot (A+B) \cdot (A+B - N_u)} = 0.620735$$

$$Num := \frac{\sqrt{N_u^4 \cdot (A+B)^2 - 2 \cdot N_u^3 \cdot (A+B) \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) + N_u^2 \cdot (16 \cdot A^2 \cdot B^2 - 3 \cdot A^4 + 16 \cdot A \cdot B^3 + 4 \cdot B^4) - 4 \cdot A^2 \cdot (A+B)^3 \cdot (A+B - 3 \cdot N_u) - N_u \cdot (A^2 + N_u \cdot A + B \cdot N_u)}}{\sqrt{\left[\sqrt{N_u^4 \cdot (A+B)^2 - 2 \cdot N_u^3 \cdot (A+B) \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) + N_u^2 \cdot (16 \cdot A^2 \cdot B^2 - 3 \cdot A^4 + 16 \cdot A \cdot B^3 + 4 \cdot B^4) - 4 \cdot A^2 \cdot (A+B)^3 \cdot (A+B - 3 \cdot N_u) - N_u \cdot (A^2 + N_u \cdot A + B \cdot N_u)}\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot (A+B) \cdot (A+B - N_u)}{\sqrt{\left[2 \cdot A \cdot (A+B) \cdot (A+B - N_u)\right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{N_u^4 \cdot (A+B)^2 + N_u^2 \cdot (16 \cdot A^2 \cdot B^2 - 3 \cdot A^4 + 16 \cdot A \cdot B^3 + 4 \cdot B^4) \dots - N_u \cdot (A^2 + N_u \cdot A + B \cdot N_u)} + -4 \cdot A^2 \cdot (A+B)^3 \cdot (A+B - 3 \cdot N_u) - 2 \cdot N_u^3 \cdot (A+B) \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)\right] \cdot \sqrt{A^2 \cdot (A+B)^2 \cdot (A+B - N_u)^2}}{A \cdot (A+B) \cdot \left[\sqrt{\left[\sqrt{N_u^4 \cdot (A+B)^2 + N_u^2 \cdot (16 \cdot A^2 \cdot B^2 - 3 \cdot A^4 + 16 \cdot A \cdot B^3 + 4 \cdot B^4) \dots - N_u \cdot (A^2 + N_u \cdot A + B \cdot N_u)} + -4 \cdot A^2 \cdot (A+B)^3 \cdot (A+B - 3 \cdot N_u) - 2 \cdot N_u^3 \cdot (A+B) \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)\right]^2 \cdot (A+B - N_u)}\right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := .88850$ $N_2 := 1.28562$ $N_3 := 1.80369$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

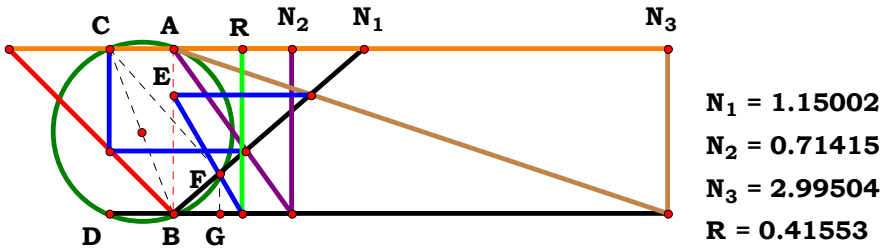
$$\frac{N_u^3 \cdot (A + B) - A^3 \cdot N_u - A^2 \cdot N_u \cdot (B - 2 \cdot N_u)}{A^2 \cdot C \cdot (A + B - N_u)} = 3.193193$$

$$Num := \frac{N_u^3 \cdot (A + B) - A^3 \cdot N_u - A^2 \cdot N_u \cdot (B - 2 \cdot N_u)}{\sqrt{\left[N_u^3 \cdot (A + B) - A^3 \cdot N_u - A^2 \cdot N_u \cdot (B - 2 \cdot N_u) \right]^2}}$$

$$Den := \frac{A^2 \cdot C \cdot (A + B - N_u)}{\sqrt{\left[A^2 \cdot C \cdot (A + B - N_u) \right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[N_u^3 \cdot (A + B) - A^3 \cdot N_u - A^2 \cdot N_u \cdot (B - 2 \cdot N_u) \right] \cdot \sqrt{A^4 \cdot C^2 \cdot (A + B - N_u)^2}}{A^2 \cdot C \cdot \sqrt{\left[N_u^3 \cdot (A + B) - A^3 \cdot N_u - A^2 \cdot N_u \cdot (B - 2 \cdot N_u) \right]^2} \cdot (A + B - N_u)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.15002$ $N_2 := .71415$ $N_3 := 2.99504$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{A \cdot N_u \cdot (A + B - N_u)}{N_u^2 \cdot (A + B) + N_u \cdot A \cdot (A + C) - A \cdot C \cdot (A + B)} = 0.415528$$

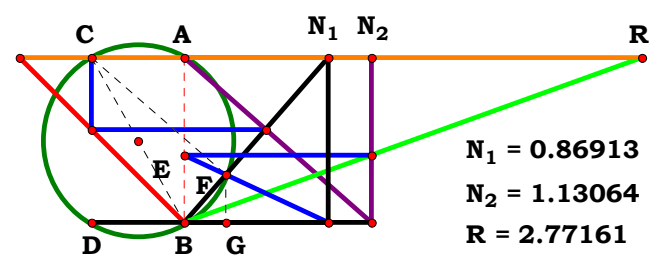
$$\text{Num} := \frac{A \cdot N_u \cdot (A + B - N_u)}{\sqrt{\left[A \cdot N_u \cdot (A + B - N_u)\right]^2}}$$

$$\text{Den} := \frac{N_u^2 \cdot (A + B) + N_u \cdot A \cdot (A + C) - A \cdot C \cdot (A + B)}{\sqrt{\left[N_u^2 \cdot (A + B) + N_u \cdot A \cdot (A + C) - A \cdot C \cdot (A + B)\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{A \cdot N_u \cdot \sqrt{\left[(A + B) \cdot N_u^2 + A \cdot (A + C) \cdot N_u - A \cdot C \cdot (A + B)\right]^2} \cdot (A + B - N_u)}{\left[(A + B) \cdot N_u^2 + A \cdot (A + C) \cdot N_u - A \cdot C \cdot (A + B)\right] \cdot \sqrt{A^2 \cdot N_u^2 \cdot (A + B - N_u)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := .86913$ $N_2 := 1.13064$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$

Descriptions.

$$\frac{N_u^2 \cdot \left[A^2 + N_u \cdot (A + B) \right]}{A^2 \cdot B \cdot (A + B - N_u)} = 2.771609$$

$$\text{Num} := \frac{N_u^2 \cdot \left[A^2 + N_u \cdot (A + B) \right]}{\sqrt{\left[N_u^2 \cdot \left[A^2 + N_u \cdot (A + B) \right] \right]^2}}$$

$$\text{Den} := \frac{A^2 \cdot B \cdot (A + B - N_u)}{\sqrt{\left[A^2 \cdot B \cdot (A + B - N_u) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

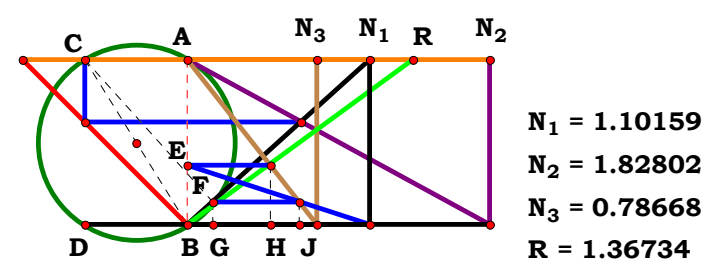
$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{N_u^2 \cdot \left[N_u \cdot (A + B) + A^2 \right] \cdot \sqrt{A^4 \cdot B^2 \cdot (A + B - N_u)^2}}{A^2 \cdot B \cdot \sqrt{N_u^4 \cdot \left[N_u \cdot (A + B) + A^2 \right]^2 \cdot (A + B - N_u)}} = 0$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$
$$\frac{\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot \left[\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}} \cdot (2 \cdot \mathbf{A} + 2 \cdot \mathbf{B} - \mathbf{N}_{\mathbf{u}}) \right]^2 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot \left(\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} \right)^2 \dots + \left[\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A} - \mathbf{C}) \cdot (\mathbf{A} + \mathbf{B}) + \mathbf{A}^3 \cdot \mathbf{N}_{\mathbf{u}} - \left[\mathbf{A}^2 \cdot \mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \right] \right] + -2 \cdot \mathbf{C} \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \cdot \left[\mathbf{A}^2 + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \left(3 \cdot \mathbf{A}^2 + 4 \cdot \mathbf{A} \cdot \mathbf{B} - 2 \cdot \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}} + 2 \cdot \mathbf{B}^2 - 2 \cdot \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2 \right)}}{2 \cdot \mathbf{A} \cdot \mathbf{C} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_{\mathbf{u}})} = \mathbf{0.413318}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\left[\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot \left[\mathbf{A}^2 + \mathbf{N}_u \cdot (2 \cdot \mathbf{A} + 2 \cdot \mathbf{B} - \mathbf{N}_u) \right]^2 + \mathbf{A}^2 \cdot \mathbf{N}_u^2 \cdot \left(\mathbf{A}^2 + \mathbf{N}_u \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_u \right)^2 \dots + \mathbf{A}^3 \cdot \mathbf{N}_u + \mathbf{N}_u^2 \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A} - \mathbf{C}) - \mathbf{A}^2 \cdot \mathbf{C} \cdot (\mathbf{A} + \mathbf{B})} \cdot \sqrt{\mathbf{A}^2 \cdot \mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_u)^2} \right]}{\mathbf{A} \cdot \mathbf{C} \cdot \left[\sqrt{\sqrt{\mathbf{C}^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot \left[\mathbf{A}^2 + \mathbf{N}_u \cdot (2 \cdot \mathbf{A} + 2 \cdot \mathbf{B} - \mathbf{N}_u) \right]^2 + \mathbf{A}^2 \cdot \mathbf{N}_u^2 \cdot \left(\mathbf{A}^2 + \mathbf{N}_u \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_u \right)^2 \dots + \mathbf{A}^3 \cdot \mathbf{N}_u + \mathbf{N}_u^2 \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A} - \mathbf{C}) - \mathbf{A}^2 \cdot \mathbf{C} \cdot (\mathbf{A} + \mathbf{B})} \cdot (\mathbf{A} + \mathbf{B}) \cdot (\mathbf{A} + \mathbf{B} - \mathbf{N}_u)} \right]^2} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.10159$ $N_2 := 1.82802$ $N_3 := .78668$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u^2 \cdot (C - A) \cdot \left[A^2 + N_u \cdot (A + B) \right]}{A^2 \cdot C^2 \cdot (A + B - N_u)} = 1.367376$$

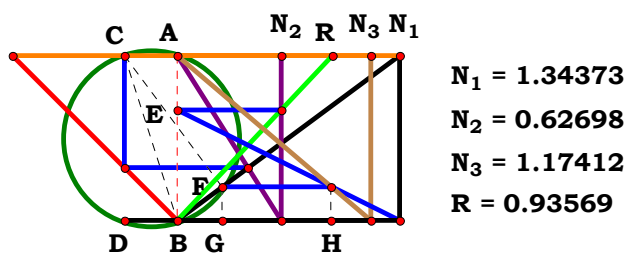
$$\text{Num} := \frac{N_u^2 \cdot (C - A) \cdot \left[A^2 + N_u \cdot (A + B) \right]}{\sqrt{\left[N_u^2 \cdot (C - A) \cdot \left[A^2 + N_u \cdot (A + B) \right] \right]^2}}$$

$$\text{Den} := \frac{A^2 \cdot C^2 \cdot (A + B - N_u)}{\sqrt{\left[A^2 \cdot C^2 \cdot (A + B - N_u) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{N_u^2 \cdot \left[N_u \cdot (A + B) + A^2 \right] \cdot (C - A) \cdot \sqrt{A^4 \cdot C^4 \cdot (A + B - N_u)^2}}{A^2 \cdot C^2 \cdot (A + B - N_u) \cdot \sqrt{N_u^4 \cdot \left[N_u \cdot (A + B) + A^2 \right]^2 \cdot (C - A)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.34373$ $N_2 := .62698$ $N_3 := 1.17412$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

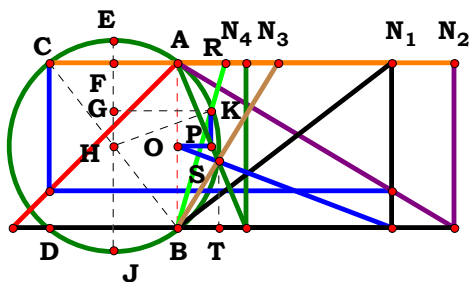
$$\frac{N_u \cdot \left[N_u^2 \cdot (C - A) \cdot (A + B) - A^3 \cdot N_u + A^2 \cdot C \cdot (A + B) \right]}{A^2 \cdot B \cdot C \cdot (A + B - N_u)} = 0.935678$$

$$Num := \frac{N_u \cdot \left[N_u^2 \cdot (C - A) \cdot (A + B) - A^3 \cdot N_u + A^2 \cdot C \cdot (A + B) \right]}{\sqrt{\left[N_u \cdot \left[N_u^2 \cdot (C - A) \cdot (A + B) - A^3 \cdot N_u + A^2 \cdot C \cdot (A + B) \right] \right]^2}}$$

$$Den := \frac{A^2 \cdot B \cdot C \cdot (A + B - N_u)}{\sqrt{\left[A^2 \cdot B \cdot C \cdot (A + B - N_u) \right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \left[N_u^2 \cdot (C - A) \cdot (A + B) - A^3 \cdot N_u + A^2 \cdot C \cdot (A + B) \right] \cdot \sqrt{A^4 \cdot B^2 \cdot C^2 \cdot (A + B - N_u)^2}}{A^2 \cdot B \cdot C \cdot \sqrt{N_u^2 \cdot \left[N_u^2 \cdot (C - A) \cdot (A + B) - A^3 \cdot N_u + A^2 \cdot C \cdot (A + B) \right]^2} \cdot (A + B - N_u)} = 0$$



$N_1 = 1.29530$
 $N_2 = 1.67305$
 $N_3 = 0.61234$
 $N_4 = 0.41626$
 $R = 0.29129$

Unit. AB := 1 Given. $N_1 := 1.2953$ $N_2 := 1.67305$ $N_3 := .61234$

$$\mathbf{N}_4 := .41626$$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}} \quad \mathbf{D} := \frac{\mathbf{N_u}}{\mathbf{N_4}}$$

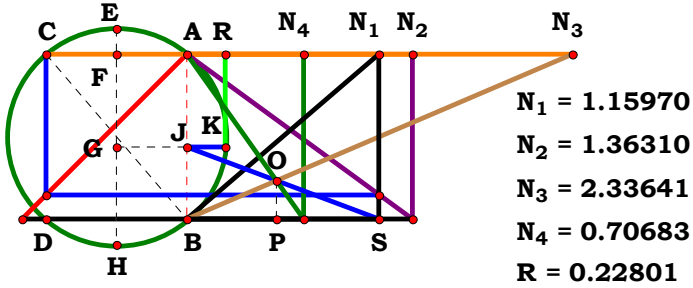
$$\frac{2 \cdot (\sqrt{N_u})^3 \cdot (A - D) \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{B} \cdot \sqrt{N_u} \cdot [A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot B \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)]} = 0.291293$$

$$\text{Den} := \frac{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{B} \cdot \sqrt{N_u} \cdot [A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot B \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)]}{\sqrt{[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{B} \cdot \sqrt{N_u} \cdot [A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot B \cdot D \cdot N_u \cdot (A - D) \cdot (C - A + D)]]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = -1 Den = -1 L = 1

$$\mathbf{L} - \frac{\mathbf{N_u}^3}{2} \cdot \sqrt{\left[\sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{\mathbf{N_u}} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{C} - \mathbf{D}) - \sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{N_u}} \cdot \left[\mathbf{A} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D})^2 - 4 \cdot \mathbf{A} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{D})^2 + 4 \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{D}) \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D}) \right] \right]^2 \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot (\mathbf{A} - \mathbf{D})} \\ \left[\sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \sqrt{\mathbf{N_u}} \cdot \mathbf{D} \cdot (\mathbf{A} - \mathbf{C} - \mathbf{D}) - \sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{N_u}} \cdot \left[\mathbf{A} \cdot \mathbf{D}^2 \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D})^2 - 4 \cdot \mathbf{A} \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{D})^2 + 4 \cdot \mathbf{B} \cdot \mathbf{D} \cdot \mathbf{N_u} \cdot (\mathbf{A} - \mathbf{D}) \cdot (\mathbf{C} - \mathbf{A} + \mathbf{D}) \right] \right] \cdot \sqrt{\mathbf{A} \cdot \mathbf{B} \cdot \mathbf{N_u}^3 \cdot (\mathbf{A} - \mathbf{D})^2} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.15970 \quad N_2 := 1.36310 \quad N_3 := 2.33641$$

$$N_4 := .70683$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

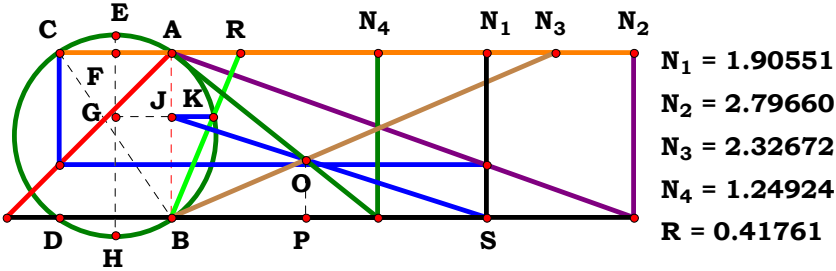
$$\frac{B \cdot (A - C - D) + \sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)}}{2 \cdot A \cdot (C - A + D)} = 0.228007$$

$$\text{Num} := \frac{B \cdot (A - C - D) + \sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)}}{\sqrt{\left[B \cdot (A - C - D) + \sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot (C - A + D)}{\sqrt{\left[2 \cdot A \cdot (C - A + D)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)} - B \cdot (C - A + D)\right] \cdot \sqrt{A^2 \cdot (C - A + D)^2}}{A \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)} - B \cdot (C - A + D)\right]^2 \cdot (C - A + D)}} = 0$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 1.90551 \quad N_2 := 2.79660 \quad N_3 := 2.32672$$

$$N_4 := 1.24924$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

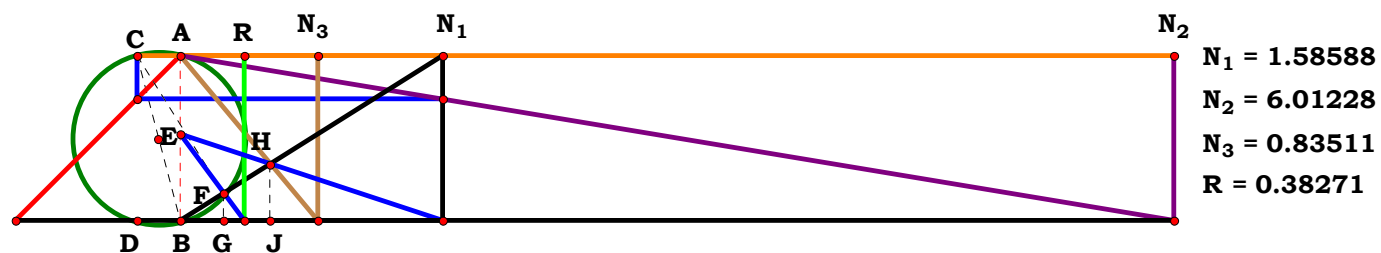
$$\frac{B \cdot (A - C - D) + \sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)}}{2 \cdot A \cdot C} = 0.417606$$

$$\text{Num} := \frac{B \cdot (A - C - D) + \sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)}}{\sqrt{\left[B \cdot (A - C - D) + \sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot C}{\sqrt{(2 \cdot A \cdot C)^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{\sqrt{A^2 \cdot C^2} \cdot \left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)} - B \cdot (C - A + D)\right]}{A \cdot C \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 + B^2 \cdot (A - D)^2 - 2 \cdot C \cdot (2 \cdot A^2 + B^2) \cdot (A - D)} - B \cdot (C - A + D)\right]^2}} = 0$$



Unit. AB := 1 Given. $N_1 := 1.58588$ $N_2 := 6.01228$
 $N_3 := .83511$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{\mathbf{N_u} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N_u})}{\mathbf{A}^2 \cdot (\mathbf{A} - \mathbf{C}) + \mathbf{N_u} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N_u})} = \mathbf{0.382713} \quad \mathbf{Num} := \frac{\mathbf{N_u} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N_u})}{\sqrt{[\mathbf{N_u} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N_u})]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{A}^2 \cdot (\mathbf{A} - \mathbf{C}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{\left[\mathbf{A}^2 \cdot (\mathbf{A} - \mathbf{C}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) \right]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

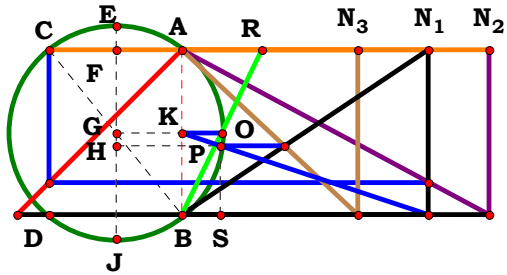
Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_{\mathbf{u}} \cdot \sqrt{\left[\mathbf{A}^2 \cdot (\mathbf{A} - \mathbf{C}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) \right]^2} \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{\mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 - \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})^2} \cdot \left[\mathbf{A}^2 \cdot (\mathbf{A} - \mathbf{C}) + \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{B} \cdot \mathbf{C} + \mathbf{A} \cdot \mathbf{N}_{\mathbf{u}}) \right]} = \mathbf{0}$$



Unit.
 AB := 1
 Given.
 N₁ := 1.48902

N₂ := 1.85708
 N₃ := 1.06757



N₁ = 1.48902
 N₂ = 1.85708
 N₃ = 1.06757
 R = 0.48409

Descriptions.

$$AC := \frac{N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

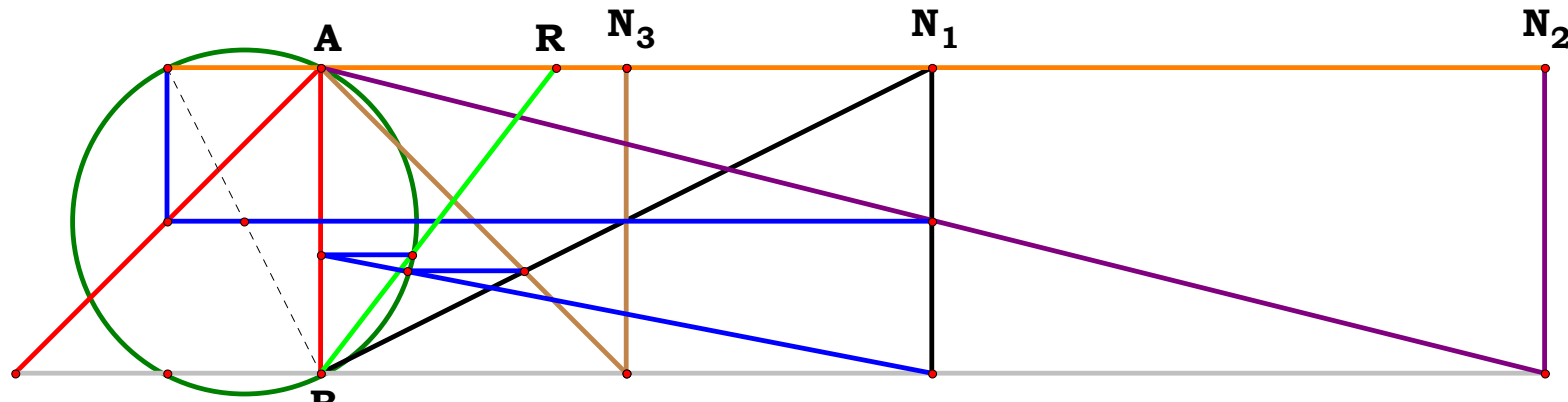
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.484091$$



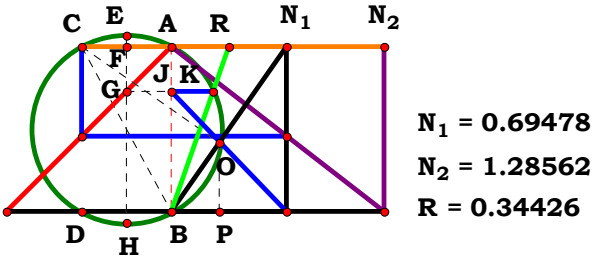
N ₁ = 2.00000	AB = 1.00000	EF = 0.05902	BS = 0.28359	KO = 0.29777
N ₂ = 4.00000	AC = 0.50000	PS = 0.33333	BK = 0.38841	R- $\frac{KO}{BK}$ = 0.00000
N ₃ = 1.00000	EJ = 1.11803	HJ = 0.39235	GJ = 0.44743	
R = 0.76663	AF = 0.25000	HP = 0.53359	GO = 0.54777	

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1]^2}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



Unit. $AB := 1$ Given. $N_1 := .69478$ $N_2 := 1.28562$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2}$$

Descriptions.

$$\frac{\sqrt{4 \cdot A^4 \cdot N_u \cdot (3 \cdot B + N_u) + B^2 \cdot N_u^4 - 2 \cdot N_u^3 \cdot B \cdot (2 \cdot A^2 - B^2) - N_u^2 \cdot B^2 \cdot (8 \cdot A^2 - B^2) - 4 \cdot A^6 - B \cdot N_u \cdot (B + N_u)}}{2 \cdot A \cdot (A^2 - B \cdot N_u)} = 0.34425$$

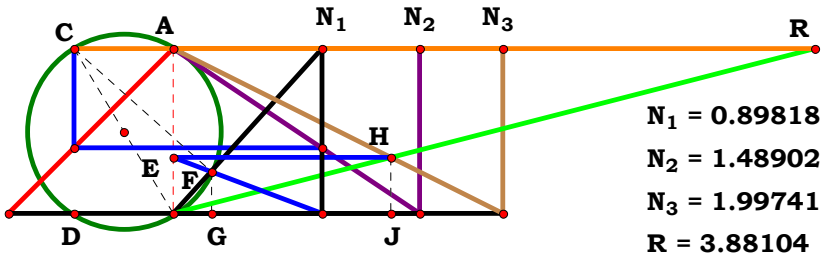
$$Num := \frac{\sqrt{4 \cdot A^4 \cdot N_u \cdot (3 \cdot B + N_u) + B^2 \cdot N_u^4 - 2 \cdot N_u^3 \cdot B \cdot (2 \cdot A^2 - B^2) - N_u^2 \cdot B^2 \cdot (8 \cdot A^2 - B^2) - 4 \cdot A^6 - B \cdot N_u \cdot (B + N_u)}}{\sqrt{\left[\sqrt{4 \cdot A^4 \cdot N_u \cdot (3 \cdot B + N_u) + B^2 \cdot N_u^4 - 2 \cdot N_u^3 \cdot B \cdot (2 \cdot A^2 - B^2) - N_u^2 \cdot B^2 \cdot (8 \cdot A^2 - B^2) - 4 \cdot A^6 - B \cdot N_u \cdot (B + N_u)}\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot (A^2 - B \cdot N_u)}{\sqrt{\left[2 \cdot A \cdot (A^2 - B \cdot N_u)\right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\sqrt{A^2 \cdot (A^2 - B \cdot N_u)^2} \cdot \left[\sqrt{B^2 \cdot N_u^4 - 4 \cdot A^6 + 2 \cdot B \cdot N_u^3 \cdot (B^2 - 2 \cdot A^2) + 4 \cdot A^4 \cdot N_u \cdot (3 \cdot B + N_u) + B^2 \cdot N_u^2 \cdot (B^2 - 8 \cdot A^2) - B \cdot N_u \cdot (B + N_u)}\right]}{A \cdot \sqrt{\left[\sqrt{B^2 \cdot N_u^4 - 4 \cdot A^6 + 2 \cdot B \cdot N_u^3 \cdot (B^2 - 2 \cdot A^2) + 4 \cdot A^4 \cdot N_u \cdot (3 \cdot B + N_u) + B^2 \cdot N_u^2 \cdot (B^2 - 8 \cdot A^2) - B \cdot N_u \cdot (B + N_u)}\right]^2} \cdot (A^2 - B \cdot N_u)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .89818$ $N_2 := 1.48902$ $N_3 := 1.99741$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

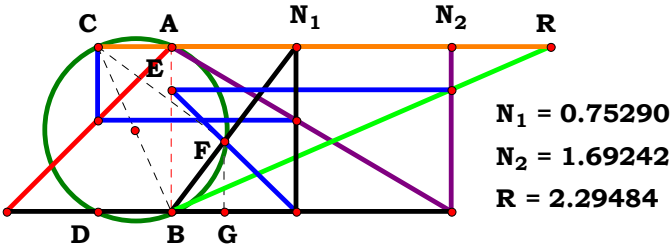
Descriptions.

$$\frac{N_u^3 - N_u \cdot (A^2 - 2 \cdot B \cdot N_u)}{A^2 \cdot C - B \cdot C \cdot N_u} = 3.880889$$
$$\text{Den} := \frac{A^2 \cdot C - B \cdot C \cdot N_u}{\sqrt{(A^2 \cdot C - B \cdot C \cdot N_u)^2}}$$

$$\text{Num} := \frac{N_u^3 - N_u \cdot (A^2 - 2 \cdot B \cdot N_u)}{\sqrt{[N_u^3 - N_u \cdot (A^2 - 2 \cdot B \cdot N_u)]^2}}$$
$$L := \frac{\text{Num}}{\text{Den}}$$

$\text{Num} = 1$ $\text{Den} = 1$ $L = 1$

$$L - \frac{\sqrt{(A^2 \cdot C - B \cdot C \cdot N_u)^2} \cdot [N_u^3 - N_u \cdot (A^2 - 2 \cdot B \cdot N_u)]}{\sqrt{[N_u^3 - N_u \cdot (A^2 - 2 \cdot B \cdot N_u)]^2} \cdot (A^2 \cdot C - B \cdot C \cdot N_u)} = 0$$



Unit. **AB** := 1 Given. **N₁** := .75290 **N₂** := 1.69242

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$

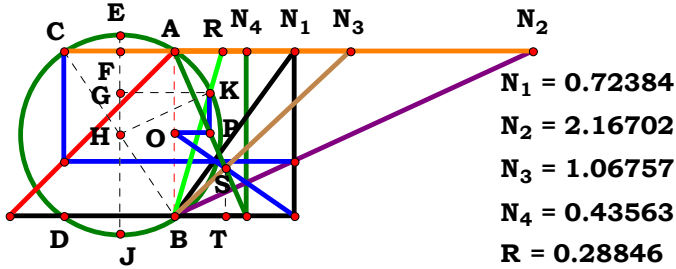
Descriptions.

$$\frac{N_u^2 \cdot (B + N_u)}{B \cdot (A^2 - B \cdot N_u)} = 2.29486$$
$$\text{Den} := \frac{B \cdot (A^2 - B \cdot N_u)}{\sqrt{[B \cdot (A^2 - B \cdot N_u)]^2}}$$

$$\text{Num} := \frac{N_u^2 \cdot (B + N_u)}{\sqrt{[N_u^2 \cdot (B + N_u)]^2}}$$
$$\text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 **Den** = 1 **L** = 1

$$\text{L} - \frac{N_u^2 \cdot \sqrt{B^2 \cdot (A^2 - B \cdot N_u)^2} \cdot (B + N_u)}{B \cdot \sqrt{N_u^4 \cdot (B + N_u)^2 \cdot (A^2 - B \cdot N_u)}} = 0$$



Unit.
AB := 1
Given.
N₁ := .72384
N₂ := 2.16702
N₃ := 1.06757
N₄ := .43563

N_u := 3
A := $\frac{N_u}{N_1}$
B := $\frac{N_u}{N_2}$
C := $\frac{N_u}{N_3}$
D := $\frac{N_u}{N_4}$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (A - D) \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot D \cdot N_u \cdot (A - B) \cdot (A - D) \cdot (C - A + D)\right]} = 0.288461$$

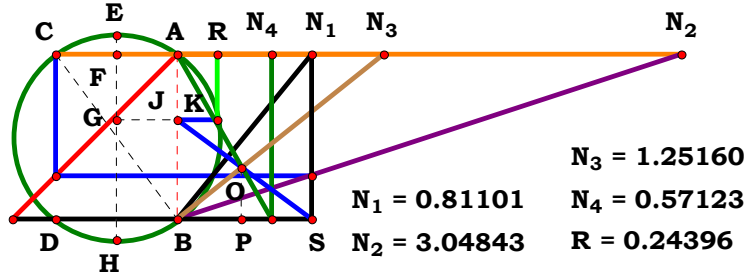
Num := $\frac{2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (A - D) \cdot \sqrt{A \cdot B}}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^3 \cdot (A - D) \cdot \sqrt{A \cdot B}\right]^2}}$

Den := $\frac{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot D \cdot N_u \cdot (A - B) \cdot (A - D) \cdot (C - A + D)\right]}{\sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot D \cdot N_u \cdot (A - B) \cdot (A - D) \cdot (C - A + D)\right]\right]^2}}$

L := $\frac{Num}{Den}$

Num = -1
Den = -1
L = 1

L - $\frac{N_u^{\frac{3}{2}} \cdot \sqrt{\left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot D \cdot N_u \cdot (A - B) \cdot (A - D) \cdot (C - A + D)\right] + D \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (C - A + D)\right]^2} \cdot \sqrt{A \cdot B} \cdot (A - D)}{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot D \cdot (A - C - D) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot D^2 \cdot (C - A + D)^2 - 4 \cdot A \cdot N_u^2 \cdot (A - D)^2 + 4 \cdot D \cdot N_u \cdot (A - B) \cdot (A - D) \cdot (C - A + D)\right]\right] \cdot \sqrt{A \cdot B \cdot N_u^3 \cdot (A - D)^2}} = 0$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .81101 \quad N_2 := 3.04843 \quad N_3 := 1.25160$$

$$N_4 := .57123$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

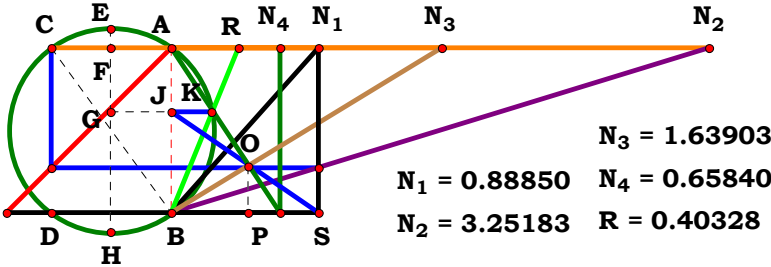
$$\frac{(A - C - D) \cdot (A - B) + \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)}}{2 \cdot A \cdot (C - A + D)} = 0.243965$$

$$\text{Num} := \frac{(A - C - D) \cdot (A - B) + \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)}}{\sqrt{\left[(A - C - D) \cdot (A - B) + \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} \right]^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot (C - A + D)}{\sqrt{[2 \cdot A \cdot (C - A + D)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\sqrt{A^2 \cdot (C - A + D)^2} \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (A - B) \cdot (C - A + D) \right]}{A \cdot \sqrt{\left[\sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (A - B) \cdot (C - A + D) \right]^2} \cdot (C - A + D)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .88850$ $N_2 := 3.25183$ $N_3 := 1.63903$
 $N_4 := .65840$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3} \quad D := \frac{N_u}{N_4}$$

Descriptions.

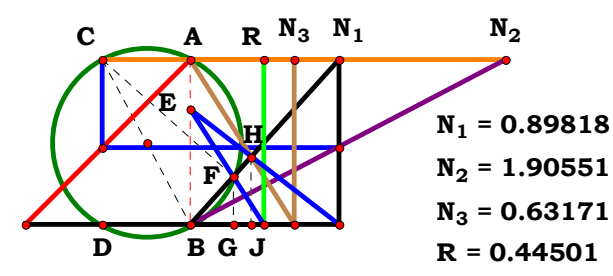
$$\frac{(A - C - D) \cdot (A - B) + \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)}}{2 \cdot A \cdot C} = 0.403288$$

$$Num := \frac{(A - C - D) \cdot (A - B) + \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)}}{\sqrt{\left[(A - C - D) \cdot (A - B) + \sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)}\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot C}{\sqrt{(2 \cdot A \cdot C)^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\sqrt{A^2 \cdot C^2} \cdot \left[\sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (A - B) \cdot (C - A + D)\right]}{A \cdot C \cdot \sqrt{\left[\sqrt{C^2 \cdot (A - B)^2 + (A - B)^2 \cdot (A - D)^2 - 2 \cdot C \cdot (A - D) \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2)} - (A - B) \cdot (C - A + D)\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := .89818$ $N_2 := 1.90551$ $N_3 := .63171$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u \cdot [A^2 - N_u \cdot (A - B)]}{A^3 - C \cdot A^2 + A \cdot N_u^2 + C \cdot N_u \cdot (A - B)} = 0.445008 \quad \text{Num} := \frac{N_u \cdot [A^2 - N_u \cdot (A - B)]}{\sqrt{[N_u \cdot [A^2 - N_u \cdot (A - B)]]^2}}$$

$$\text{Den} := \frac{A^3 - C \cdot A^2 + A \cdot N_u^2 + C \cdot N_u \cdot (A - B)}{\sqrt{[A^3 - C \cdot A^2 + A \cdot N_u^2 + C \cdot N_u \cdot (A - B)]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

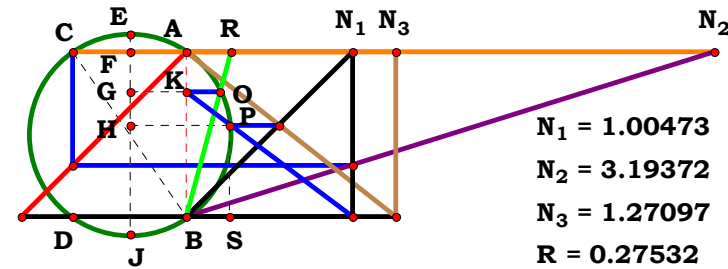
$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u \cdot \sqrt{[A^3 - A^2 \cdot C + A \cdot N_u^2 + C \cdot N_u \cdot (A - B)]^2} \cdot [A^2 - N_u \cdot (A - B)]}{\sqrt{N_u^2 \cdot [A^2 - N_u \cdot (A - B)]^2} \cdot [A^3 - A^2 \cdot C + A \cdot N_u^2 + C \cdot N_u \cdot (A - B)]} = 0$$



Unit.
 AB := 1
 Given.
 N₁ := 1.00473

N₂ := 3.19372
 N₃ := 1.27097



N₁ = 1.00473
 N₂ = 3.19372
 N₃ = 1.27097
 R = 0.27532

Descriptions.

$$AC := \frac{N_2 - N_1}{N_2} \quad EJ := \sqrt{AB^2 + AC^2}$$

$$AF := \frac{AC}{2} \quad EF := \frac{EJ - AB}{2}$$

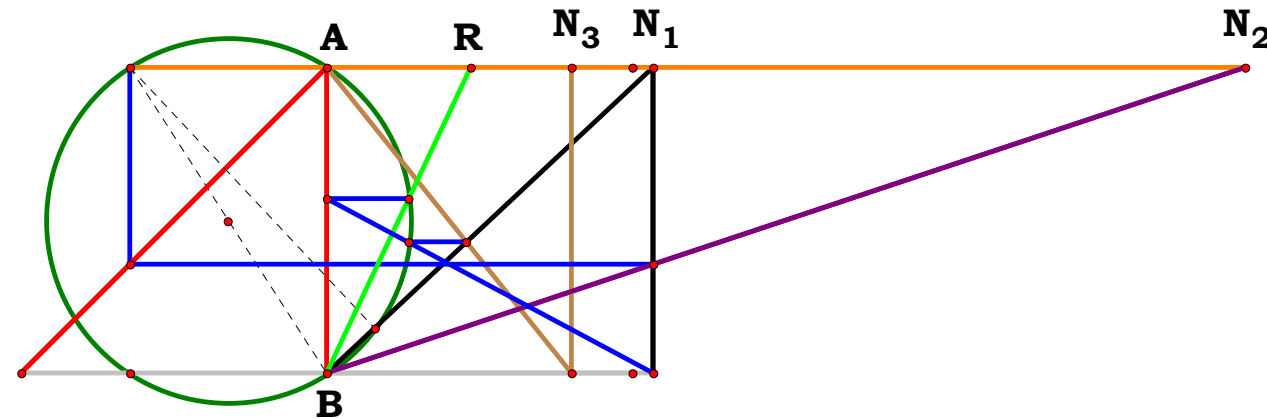
$$PS := \frac{N_3}{N_1 + N_3} \quad HJ := PS + EF$$

$$HP := \sqrt{HJ \cdot (EJ - HJ)} \quad BS := HP - AF$$

$$BK := \frac{PS \cdot N_1}{N_1 - BS} \quad GJ := BK + EF$$

$$GO := \sqrt{GJ \cdot (EJ - GJ)} \quad KO := GO - AF$$

$$R := \frac{KO}{BK} \quad R = 0.275323$$



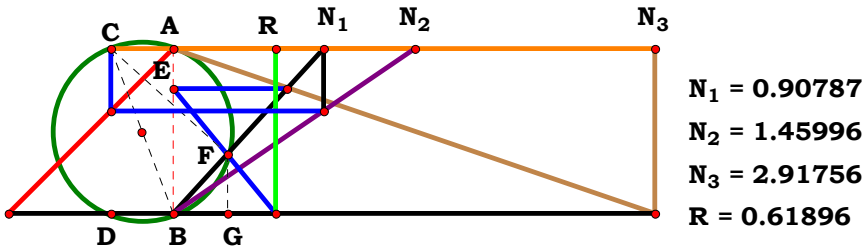
N ₁ = 1.06798	AB = 1.00000	EF = 0.09472	BS = 0.26837	KO = 0.26834
N ₂ = 3.00000	AC = 0.64401	PS = 0.42827	BK = 0.57201	R - $\frac{KO}{BK}$ = 0.00000
N ₃ = 0.80000	EJ = 1.18943	HJ = 0.52299	GJ = 0.66673	
R = 0.46911	AF = 0.32200	HP = 0.59037	GO = 0.59034	

Definitions.

$$A := \sqrt{AC^2 \cdot (N_1 + N_3)^2 + 4 \cdot N_1 \cdot N_3} \quad B := \sqrt{(N_1 + N_3)^2} \quad C := \sqrt{(N_1 + N_3)^2 \cdot [A - B \cdot (AC + 2 \cdot N_1)]^2}$$

$$D := \sqrt{AC^2 \cdot (N_1 + N_3)^2 \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)^2 - 8 \cdot B \cdot N_1 \cdot N_3 \cdot [(N_1 + N_3) \cdot (A - AC \cdot B) - 2 \cdot B \cdot N_1^2]}$$

$$R - \frac{(AC \cdot C - D) \cdot (N_1 + N_3) \cdot (A - AC \cdot B - 2 \cdot B \cdot N_1)}{4 \cdot B \cdot C \cdot N_1 \cdot N_3} = 0$$



Unit. $AB := 1$ Given. $N_1 := .90787$ $N_2 := 1.45996$ $N_3 := 2.91756$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A^2 - N_u \cdot A + B \cdot N_u)}{A \cdot (N_u^2 - A \cdot C) + N_u \cdot (A + C) \cdot (A - B)} = 0.618963$$

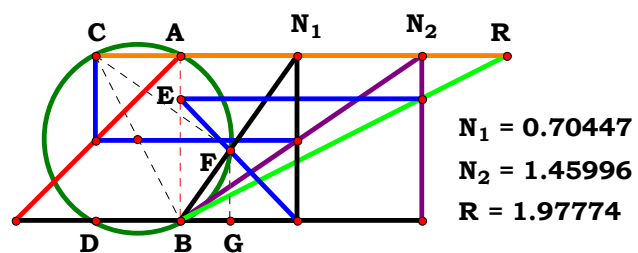
$$Den := \frac{A \cdot (N_u^2 - A \cdot C) + N_u \cdot (A + C) \cdot (A - B)}{\sqrt{[A \cdot (N_u^2 - A \cdot C) + N_u \cdot (A + C) \cdot (A - B)]^2}}$$

$$Num := \frac{N_u \cdot (A^2 - N_u \cdot A + B \cdot N_u)}{\sqrt{[N_u \cdot (A^2 - N_u \cdot A + B \cdot N_u)]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1 \quad Den = 1 \quad L = 1$

$$L - \frac{N_u \cdot \sqrt{[A \cdot (N_u^2 - A \cdot C) + N_u \cdot (A + C) \cdot (A - B)]^2} \cdot (A^2 - N_u \cdot A + B \cdot N_u)}{\sqrt{N_u^2 \cdot (A^2 - N_u \cdot A + B \cdot N_u)^2 \cdot [A \cdot (N_u^2 - A \cdot C) + N_u \cdot (A + C) \cdot (A - B)]}} = 0$$



Unit. AB := 1 **Given.** $N_1 := .70447$ $N_2 := 1.45996$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}}$$

Descriptions.

$$\frac{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N_u})}{\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{N_u} \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N_u})} = 1.97774$$

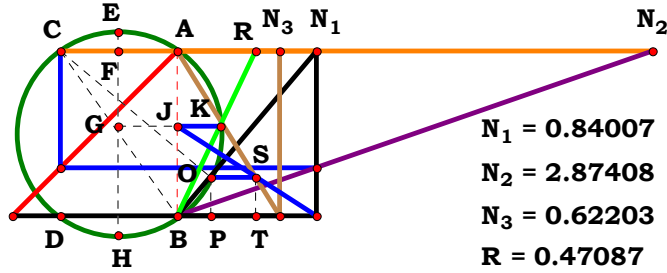
$$\mathbf{Num} := \frac{\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N_u})}{\sqrt{\left[\mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N_u}) \right]^2}}$$

$$\mathbf{Den} := \frac{\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})}{\sqrt{[\mathbf{B} \cdot (\mathbf{A}^2 - \mathbf{N}_{\mathbf{u}} \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_{\mathbf{u}})]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\mathbf{N}_u^2 \cdot \sqrt{\mathbf{B}^2 \cdot (\mathbf{A}^2 - \mathbf{N}_u \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_u)^2} \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_u)}{\mathbf{B} \cdot \sqrt{\mathbf{N}_u^4 \cdot (\mathbf{A} - \mathbf{B} + \mathbf{N}_u)^2} \cdot (\mathbf{A}^2 - \mathbf{N}_u \cdot \mathbf{A} + \mathbf{B} \cdot \mathbf{N}_u)} = \mathbf{0}$$



$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := .84007 \quad N_2 := 2.87408 \quad N_3 := .62203$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

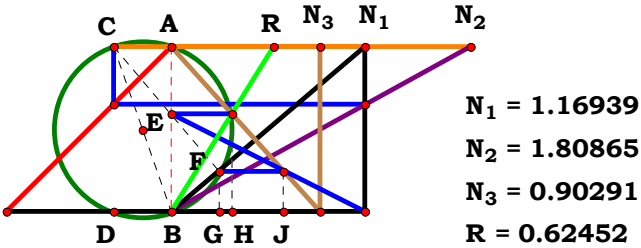
$$\frac{(A-B) \cdot \left[N_u^2 \cdot (A-C) + N_u \cdot A \cdot (A-B) - A^2 \cdot C \right] + \sqrt{C^2 \cdot \left[A^2 \cdot (A-B+2 \cdot N_u) - N_u^2 \cdot (A-B) \right]^2 + A^2 \cdot N_u^2 \cdot (A-B)^2 \cdot (A-B+N_u)^2 \dots + -2 \cdot C \cdot A \cdot N_u \cdot (A-B+N_u) \cdot \left[N_u^2 \cdot (A-B)^2 - 2 \cdot N_u \cdot A^2 \cdot (A-B) + A^2 \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2) \right]}}{2 \cdot A \cdot C \cdot \left(A^2 - N_u \cdot A + B \cdot N_u \right)} = 0.470865$$

$$\text{Num} := \frac{(A-B) \cdot \left[N_u^2 \cdot (A-C) + N_u \cdot A \cdot (A-B) - A^2 \cdot C \right] + \sqrt{C^2 \cdot \left[A^2 \cdot (A-B+2 \cdot N_u) - N_u^2 \cdot (A-B) \right]^2 + A^2 \cdot N_u^2 \cdot (A-B)^2 \cdot (A-B+N_u)^2 \dots + -2 \cdot C \cdot A \cdot N_u \cdot (A-B+N_u) \cdot \left[N_u^2 \cdot (A-B)^2 - 2 \cdot N_u \cdot A^2 \cdot (A-B) + A^2 \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2) \right]}}{\sqrt{\left[(A-B) \cdot \left[N_u^2 \cdot (A-C) + N_u \cdot A \cdot (A-B) - A^2 \cdot C \right] + \sqrt{C^2 \cdot \left[A^2 \cdot (A-B+2 \cdot N_u) - N_u^2 \cdot (A-B) \right]^2 + A^2 \cdot N_u^2 \cdot (A-B)^2 \cdot (A-B+N_u)^2 \dots + -2 \cdot C \cdot A \cdot N_u \cdot (A-B+N_u) \cdot \left[N_u^2 \cdot (A-B)^2 - 2 \cdot N_u \cdot A^2 \cdot (A-B) + A^2 \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2) \right]}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot A \cdot C \cdot \left(A^2 - N_u \cdot A + B \cdot N_u \right)}{\sqrt{\left[2 \cdot A \cdot C \cdot \left(A^2 - N_u \cdot A + B \cdot N_u \right) \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{C^2 \cdot \left[N_u^2 \cdot (A-B) - A^2 \cdot (A-B+2 \cdot N_u) \right]^2 + A^2 \cdot N_u^2 \cdot (A-B)^2 \cdot (A-B+N_u)^2 \dots + -2 \cdot A \cdot C \cdot N_u \cdot (A-B+N_u) \cdot \left[N_u^2 \cdot (A-B)^2 + A^2 \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2) - 2 \cdot A^2 \cdot N_u \cdot (A-B) \right]} + (A-B) \cdot \left[N_u^2 \cdot (A-C) - A^2 \cdot C + A \cdot N_u \cdot (A-B) \right] \right] \cdot \sqrt{A^2 \cdot C^2 \cdot \left(A^2 - N_u \cdot A + B \cdot N_u \right)^2}}{A \cdot C \cdot \sqrt{\left[\sqrt{C^2 \cdot \left[N_u^2 \cdot (A-B) - A^2 \cdot (A-B+2 \cdot N_u) \right]^2 + A^2 \cdot N_u^2 \cdot (A-B)^2 \cdot (A-B+N_u)^2 \dots + -2 \cdot A \cdot C \cdot N_u \cdot (A-B+N_u) \cdot \left[N_u^2 \cdot (A-B)^2 + A^2 \cdot (3 \cdot A^2 - 2 \cdot A \cdot B + B^2) - 2 \cdot A^2 \cdot N_u \cdot (A-B) \right]} + (A-B) \cdot \left[N_u^2 \cdot (A-C) - A^2 \cdot C + A \cdot N_u \cdot (A-B) \right] \right]^2 \cdot \left(A^2 - N_u \cdot A + B \cdot N_u \right)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.16939$ $N_2 := 1.80865$ $N_3 := .90291$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{N_u^2 \cdot (A - C) \cdot (B - A - N_u)}{C^2 \cdot [A^2 - N_u \cdot (A - B)]} = 0.624537$$

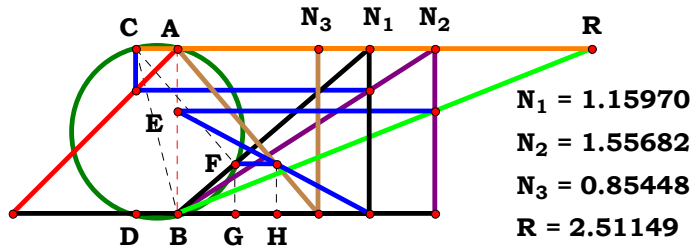
$$Num := \frac{N_u^2 \cdot (A - C) \cdot (B - A - N_u)}{\sqrt{[N_u^2 \cdot (A - C) \cdot (B - A - N_u)]^2}}$$

$$Den := \frac{C^2 \cdot [A^2 - N_u \cdot (A - B)]}{\sqrt{[C^2 \cdot [A^2 - N_u \cdot (A - B)]]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u^2 \cdot \sqrt{C^4 \cdot [A^2 - N_u \cdot (A - B)]^2} \cdot (A - C) \cdot (B - A - N_u)}{C^2 \cdot [A^2 - N_u \cdot (A - B)] \cdot \sqrt{N_u^4 \cdot (A - C)^2 \cdot (B - A - N_u)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.15970$ $N_2 := 1.55682$ $N_3 := .85448$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

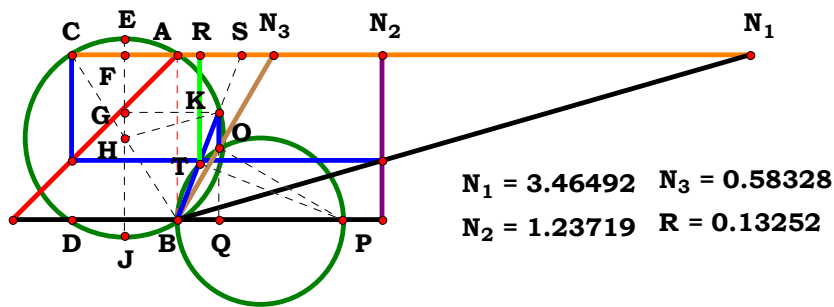
$$\frac{C \cdot N_u \cdot (A^2 + N_u^2) - A \cdot N_u^2 \cdot (A - B + N_u)}{B \cdot C \cdot [A^2 - N_u \cdot (A - B)]} = 2.511501$$

$$Num := \frac{C \cdot N_u \cdot (A^2 + N_u^2) - A \cdot N_u^2 \cdot (A - B + N_u)}{\sqrt{[C \cdot N_u \cdot (A^2 + N_u^2) - A \cdot N_u^2 \cdot (A - B + N_u)]^2}}$$

$$Den := \frac{B \cdot C \cdot [A^2 - N_u \cdot (A - B)]}{\sqrt{[B \cdot C \cdot [A^2 - N_u \cdot (A - B)]]^2}} \qquad L := \frac{Num}{Den}$$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{[C \cdot N_u \cdot (A^2 + N_u^2) - A \cdot N_u^2 \cdot (A - B + N_u)] \cdot \sqrt{B^2 \cdot C^2 \cdot [A^2 - N_u \cdot (A - B)]^2}}{B \cdot C \cdot \sqrt{[C \cdot N_u \cdot (A^2 + N_u^2) - A \cdot N_u^2 \cdot (A - B + N_u)]^2 \cdot [A^2 - N_u \cdot (A - B)]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.46492$ $N_2 := 1.23719$ $N_3 := .58328$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot B \cdot \left(\sqrt{N_u}\right)^9 \cdot \sqrt{A \cdot B}}{\left(C^2+N_u^2\right) \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2+2 \cdot A \cdot N_u^2-B \cdot N_u^2\right)+\sqrt{A \cdot B} \cdot \sqrt{N_u^5 \cdot\left(4 \cdot A-7 \cdot B\right)+B \cdot C^4 \cdot N_u-2 \cdot C^2 \cdot N_u^3 \cdot\left(B-2 \cdot A\right)}\right]}=0.132516$$

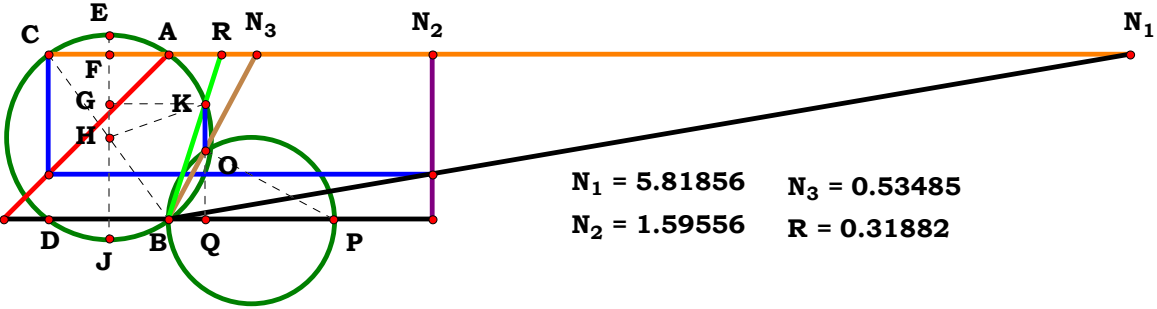
$$Num := \frac{2 \cdot B \cdot \left(\sqrt{N_u}\right)^9 \cdot \sqrt{A \cdot B}}{\sqrt{\left[2 \cdot B \cdot \left(\sqrt{N_u}\right)^9 \cdot \sqrt{A \cdot B}\right]^2}}$$

$$Den := \frac{\left(C^2+N_u^2\right) \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2+2 \cdot A \cdot N_u^2-B \cdot N_u^2\right)+\sqrt{A \cdot B} \cdot \sqrt{N_u^5 \cdot\left(4 \cdot A-7 \cdot B\right)+B \cdot C^4 \cdot N_u-2 \cdot C^2 \cdot N_u^3 \cdot\left(B-2 \cdot A\right)}\right]}{\sqrt{\left[\left(C^2+N_u^2\right) \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2+2 \cdot A \cdot N_u^2-B \cdot N_u^2\right)+\sqrt{A \cdot B} \cdot \sqrt{N_u^5 \cdot\left(4 \cdot A-7 \cdot B\right)+B \cdot C^4 \cdot N_u-2 \cdot C^2 \cdot N_u^3 \cdot\left(B-2 \cdot A\right)}\right]\right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{B \cdot N_u^{\frac{9}{2}} \cdot \sqrt{\left(C^2+N_u^2\right)^2 \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2+2 \cdot A \cdot N_u^2-B \cdot N_u^2\right)+\sqrt{A \cdot B} \cdot \sqrt{N_u^5 \cdot\left(4 \cdot A-7 \cdot B\right)+B \cdot C^4 \cdot N_u-2 \cdot C^2 \cdot N_u^3 \cdot\left(B-2 \cdot A\right)}\right]^2 \cdot \sqrt{A \cdot B}}{\left(C^2+N_u^2\right) \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2+2 \cdot A \cdot N_u^2-B \cdot N_u^2\right)+\sqrt{A \cdot B} \cdot \sqrt{N_u^5 \cdot\left(4 \cdot A-7 \cdot B\right)+B \cdot C^4 \cdot N_u-2 \cdot C^2 \cdot N_u^3 \cdot\left(B-2 \cdot A\right)}\right] \cdot \sqrt{A \cdot B^3 \cdot N_u^9}}=0$$



$$\begin{aligned} N_1 &= 5.81856 & N_3 &= 0.53485 \\ N_2 &= 1.59556 & R &= 0.31882 \end{aligned}$$

$$\text{Unit. } AB := 1 \quad \text{Given. } N_1 := 5.81856 \quad N_2 := 1.59556 \quad N_3 := .53485$$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) + \sqrt{A} \cdot \sqrt{N_u^5 \cdot \left(4 \cdot A - 7 \cdot B\right) + B \cdot C^4 \cdot N_u - 2 \cdot C^2 \cdot N_u^3 \cdot \left(B - 2 \cdot A\right)}} = 0.318811$$

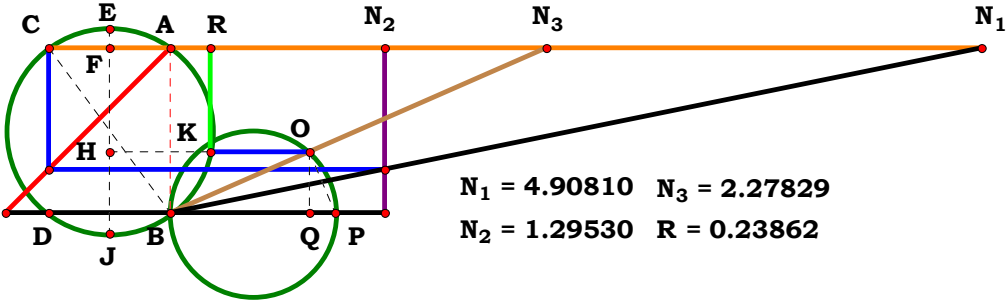
$$\text{Num} := \frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}\right]^2}}$$

$$\text{Den} := \frac{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) + \sqrt{A} \cdot \sqrt{N_u^5 \cdot \left(4 \cdot A - 7 \cdot B\right) + B \cdot C^4 \cdot N_u - 2 \cdot C^2 \cdot N_u^3 \cdot \left(B - 2 \cdot A\right)}}{\sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) + \sqrt{A} \cdot \sqrt{N_u^5 \cdot \left(4 \cdot A - 7 \cdot B\right) + B \cdot C^4 \cdot N_u - 2 \cdot C^2 \cdot N_u^3 \cdot \left(B - 2 \cdot A\right)}\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u^{\frac{5}{2}} \cdot \sqrt{\left[\sqrt{A} \cdot \sqrt{N_u^5 \cdot \left(4 \cdot A - 7 \cdot B\right) + B \cdot C^4 \cdot N_u - 2 \cdot C^2 \cdot N_u^3 \cdot \left(B - 2 \cdot A\right)} + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(C^2 + N_u^2\right)\right]^2} \cdot \sqrt{A \cdot B}}{\left[\sqrt{A} \cdot \sqrt{N_u^5 \cdot \left(4 \cdot A - 7 \cdot B\right) + B \cdot C^4 \cdot N_u - 2 \cdot C^2 \cdot N_u^3 \cdot \left(B - 2 \cdot A\right)} + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(C^2 + N_u^2\right)\right] \cdot \sqrt{A \cdot B \cdot N_u^5}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 4.90810$ $N_2 := 1.29530$ $N_3 := 2.27829$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

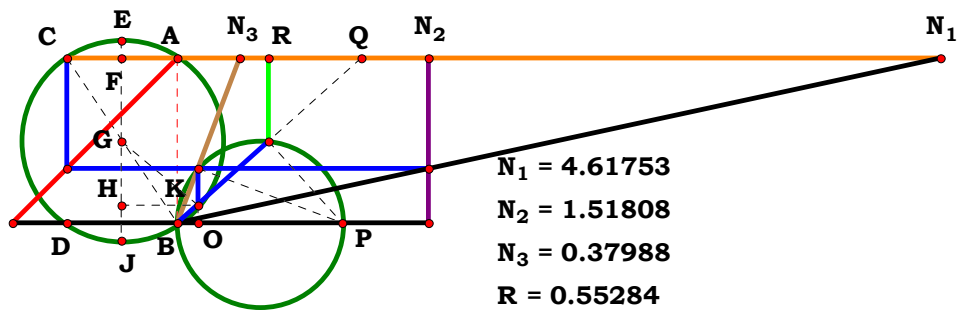
$$\frac{\sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B) + \left(C^2 + N_u^2\right) \cdot (A - B)}}{2 \cdot B \cdot \left(C^2 + N_u^2\right)} = 0.238618$$

$$Num := \frac{\sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B) + \left(C^2 + N_u^2\right) \cdot (A - B)}}{\sqrt{\left[\sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B) + \left(C^2 + N_u^2\right) \cdot (A - B)}\right]^2}}$$

$$Den := \frac{2 \cdot B \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[2 \cdot B \cdot \left(C^2 + N_u^2\right)\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\sqrt{B^2 \cdot \left(C^2 + N_u^2\right)^2 \cdot \left[\left(C^2 + N_u^2\right) \cdot (A - B) + \sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B)}\right]}}{B \cdot \left(C^2 + N_u^2\right) \cdot \sqrt{\left[\left(C^2 + N_u^2\right) \cdot (A - B) + \sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 4.61753$ $N_2 := 1.51808$ $N_3 := .37988$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot (\sqrt{B})^2 \cdot N_u^4}{\left(C^2 + N_u^2 \right) \cdot \left[B \cdot C^2 - \sqrt{B} \cdot \sqrt{N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A) + N_u^2 \cdot (2 \cdot A - B)} \right]} = 0.552845$$

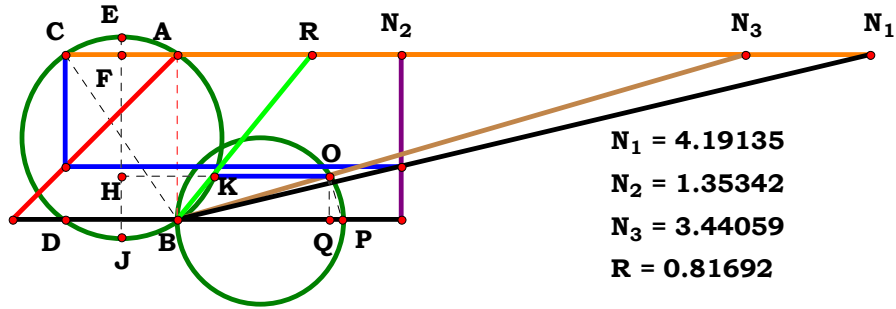
$$\text{Den} := \frac{\left(C^2 + N_u^2 \right) \cdot \left[B \cdot C^2 - \sqrt{B} \cdot \sqrt{N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A) + N_u^2 \cdot (2 \cdot A - B)} \right]}{\sqrt{\left[\left(C^2 + N_u^2 \right) \cdot \left[B \cdot C^2 - \sqrt{B} \cdot \sqrt{N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A) + N_u^2 \cdot (2 \cdot A - B)} \right] \right]^2}}$$

$$\text{Num} := \frac{2 \cdot (\sqrt{B})^2 \cdot N_u^4}{\sqrt{\left[2 \cdot (\sqrt{B})^2 \cdot N_u^4 \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{B \cdot N_u^4 \cdot \sqrt{\left(C^2 + N_u^2 \right)^2 \cdot \left[B \cdot C^2 - \sqrt{B} \cdot \sqrt{N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A) + N_u^2 \cdot (2 \cdot A - B)} \right]^2}}{\sqrt{B^2 \cdot N_u^8 \cdot \left(C^2 + N_u^2 \right) \cdot \left[B \cdot C^2 - \sqrt{B} \cdot \sqrt{N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A) + N_u^2 \cdot (2 \cdot A - B)} \right]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 4.19135$ $N_2 := 1.35342$ $N_3 := 3.44059$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

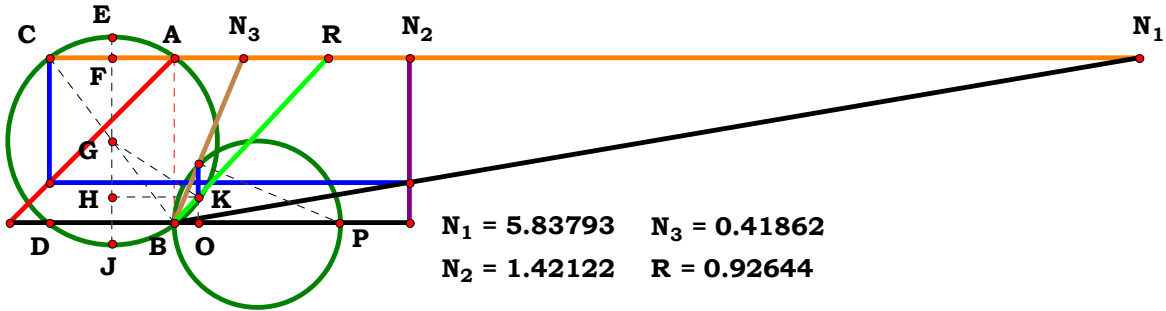
$$\frac{\sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B) + \left(C^2 + N_u^2\right) \cdot (A - B)}}{2 \cdot N_u \cdot B \cdot C} = 0.816925$$

$$Num := \frac{\sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B) + \left(C^2 + N_u^2\right) \cdot (A - B)}}{\sqrt{\left[\sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B) + \left(C^2 + N_u^2\right) \cdot (A - B)}\right]^2}}$$

$$Den := \frac{2 \cdot N_u \cdot B \cdot C}{\sqrt{\left(2 \cdot N_u \cdot B \cdot C\right)^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\left(C^2 + N_u^2\right) \cdot (A - B) + \sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B)}\right] \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}{B \cdot C \cdot N_u \cdot \sqrt{\left[\left(C^2 + N_u^2\right) \cdot (A - B) + \sqrt{B^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) + A \cdot \left(C^2 + N_u^2\right)^2 \cdot (A - 2 \cdot B)}\right]^2}} = 0$$



Unit. AB := 1 Given. N₁ := 5.8379 N₂ := 1.42122 N₃ := .41862

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

Descriptions.

$$\frac{2 \cdot (\sqrt{N_u})^5 \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot (C^2 + N_u^2) - \sqrt{A} \cdot \sqrt{N_u} \cdot [N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A)]} = 0.926446$$

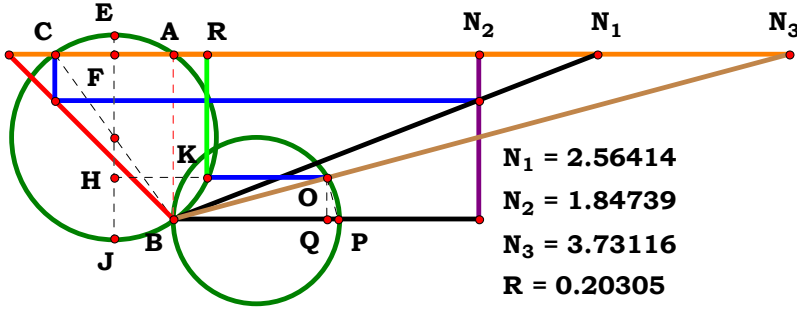
Num :=
$$\frac{2 \cdot (\sqrt{N_u})^5 \cdot \sqrt{A \cdot B}}{\sqrt{[2 \cdot (\sqrt{N_u})^5 \cdot \sqrt{A \cdot B}]^2}}$$

Den :=
$$\frac{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot (C^2 + N_u^2) - \sqrt{A} \cdot \sqrt{N_u} \cdot [N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A)]}{\sqrt{[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot (C^2 + N_u^2) - \sqrt{A} \cdot \sqrt{N_u} \cdot [N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A)]]^2}}$$

L :=
$$\frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

L -
$$\frac{N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} \cdot \sqrt{[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot (C^2 + N_u^2) - \sqrt{A} \cdot \sqrt{N_u} \cdot [N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A)]]^2}}{[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot (C^2 + N_u^2) - \sqrt{A} \cdot \sqrt{N_u} \cdot [N_u^4 \cdot (4 \cdot A - 7 \cdot B) + B \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (B - 2 \cdot A)]] \cdot \sqrt{A \cdot B \cdot N_u^5}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.56414$ $N_2 := 1.84739$ $N_3 := 3.73116$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

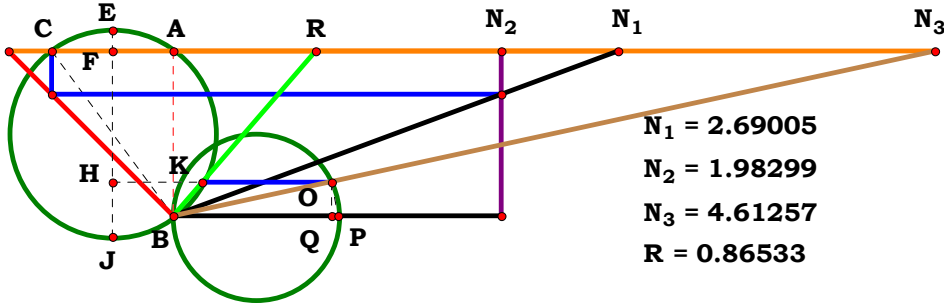
$$\frac{\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}}{2 \cdot B \cdot (C^2 + N_u^2)} = 0.203054$$

$$Num := \frac{\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}}{\sqrt{\left[\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}\right]^2}}$$

$$Den := \frac{2 \cdot B \cdot (C^2 + N_u^2)}{\sqrt{\left[2 \cdot B \cdot (C^2 + N_u^2)\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\sqrt{B^2 \cdot (C^2 + N_u^2)^2} \cdot \left[\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}\right]}{B \cdot (C^2 + N_u^2) \cdot \sqrt{\left[\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.69005$ $N_2 := 1.98299$ $N_3 := 4.61257$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}}{2 \cdot N_u \cdot B \cdot C} = 0.865329$$

$$Num := \frac{\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}}{\sqrt{\left[\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}\right]^2}}$$

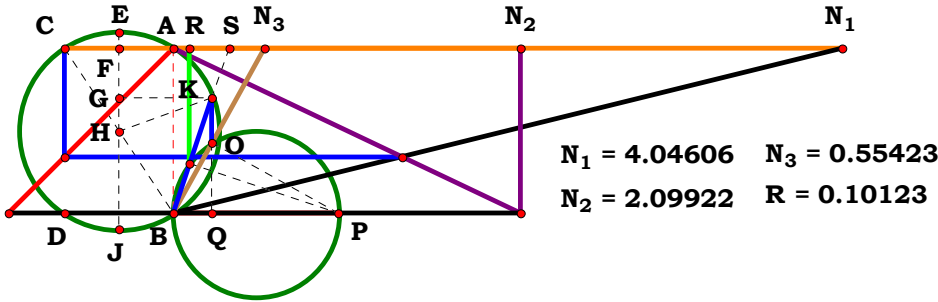
$$Den := \frac{2 \cdot N_u \cdot B \cdot C}{\sqrt{(2 \cdot N_u \cdot B \cdot C)^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}\right] \cdot \sqrt{B^2 \cdot C^2 \cdot N_u^2}}{B \cdot C \cdot N_u \cdot \sqrt{\left[\sqrt{A^2 \cdot (C^2 + N_u^2)^2 + 4 \cdot B^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) - A \cdot (C^2 + N_u^2)}\right]^2}} = 0$$



Descriptions.



Unit. $AB := 1$ Given. $N_1 := 4.04606$ $N_2 := 2.09922$ $N_3 := .55423$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$$\frac{2 \cdot N_u^5 \cdot (\sqrt{A \cdot B})^2 \cdot (A + B)}{\left(C^2 + N_u^2 \right) \cdot \left[A \cdot B \cdot N_u \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A - B) \right] + A \cdot B \cdot \sqrt{N_u} \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right] \cdot \sqrt{N_u} \cdot (A + B) \right]} = 0.101239$$

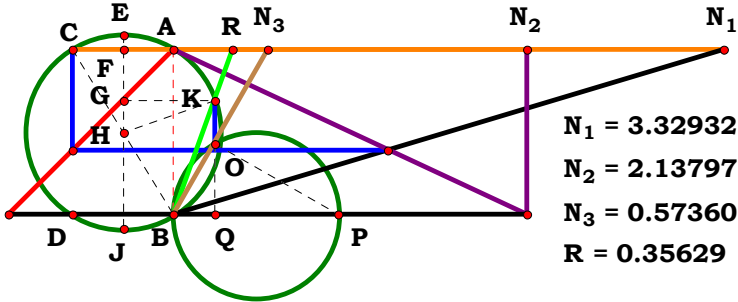
$$Num := \frac{2 \cdot N_u^5 \cdot (\sqrt{A \cdot B})^2 \cdot (A + B)}{\sqrt{\left[2 \cdot N_u^5 \cdot (\sqrt{A \cdot B})^2 \cdot (A + B) \right]^2}}$$

$$Den := \frac{\left(C^2 + N_u^2 \right) \cdot \left[A \cdot B \cdot N_u \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A - B) \right] + A \cdot B \cdot \sqrt{N_u} \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right] \cdot \sqrt{N_u} \cdot (A + B) \right]}{\sqrt{\left[\left(C^2 + N_u^2 \right) \cdot \left[A \cdot B \cdot N_u \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A - B) \right] + A \cdot B \cdot \sqrt{N_u} \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right] \cdot \sqrt{N_u} \cdot (A + B) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{A \cdot B \cdot N_u^5 \cdot (A + B) \cdot \sqrt{\left(C^2 + N_u^2 \right)^2 \cdot \left[A \cdot B \cdot \sqrt{N_u} \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right] \cdot \sqrt{N_u} \cdot (A + B) + A \cdot B \cdot N_u \cdot \left[(A + B) \cdot C^2 + (A - B) \cdot N_u^2 \right] \right]^2}}{\left(C^2 + N_u^2 \right) \cdot \left[A \cdot B \cdot \sqrt{N_u} \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right] \cdot \sqrt{N_u} \cdot (A + B) + A \cdot B \cdot N_u \cdot \left[(A + B) \cdot C^2 + (A - B) \cdot N_u^2 \right] \right] \cdot \sqrt{A^2 \cdot B^2 \cdot N_u^{10} \cdot (A + B)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.32932$ $N_2 := 2.13797$ $N_3 := .57360$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{N_u \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} + \sqrt{N_u \cdot (A + B)} \cdot \left(C^2 + N_u^2 \right)} = 0.356297$$

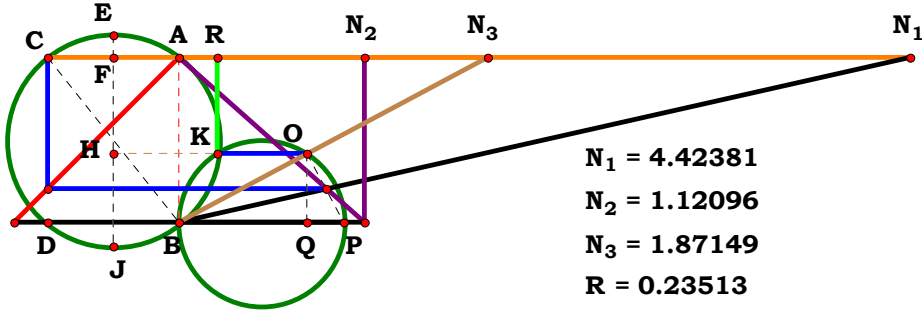
$$Num := \frac{2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{\left[2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)} \right]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} + \sqrt{N_u \cdot (A + B)} \cdot \left(C^2 + N_u^2 \right)}{\sqrt{\left[\sqrt{N_u \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} + \sqrt{N_u \cdot (A + B)} \cdot \left(C^2 + N_u^2 \right) \right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{N_u^2 \cdot \sqrt{\left[\sqrt{N_u \cdot (A + B)} \cdot \left(C^2 + N_u^2 \right) + \sqrt{N_u \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right]^2} \cdot \sqrt{N_u \cdot (A + B)}}{\left[\sqrt{N_u \cdot (A + B)} \cdot \left(C^2 + N_u^2 \right) + \sqrt{N_u \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right] \cdot \sqrt{N_u^5 \cdot (A + B)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 4.42381$ $N_2 := 1.12096$ $N_3 := 1.87149$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

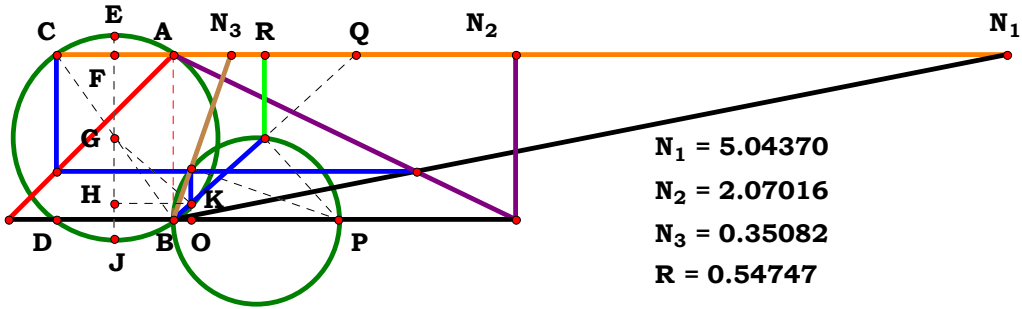
$$\frac{\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2)}{2 \cdot (C^2 + N_u^2) \cdot (A + B)} = 0.235134$$

$$Num := \frac{\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2)}{\sqrt{\left[\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2)\right]^2}}$$

$$Den := \frac{2 \cdot (C^2 + N_u^2) \cdot (A + B)}{\sqrt{\left[2 \cdot (C^2 + N_u^2) \cdot (A + B)\right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\sqrt{(2 \cdot C^2 + 2 \cdot N_u^2)^2 \cdot (A + B)^2 \cdot \left[\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2)\right]}}{\sqrt{\left[\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2)\right]^2 \cdot (2 \cdot C^2 + 2 \cdot N_u^2) \cdot (A + B)}} = 0$$



$N_1 = 5.04370$
 $N_2 = 2.07016$
 $N_3 = 0.35082$
 $R = 0.54747$

Unit. $AB := 1$ Given. $N_1 := 5.04370$ $N_2 := 2.07016$ $N_3 := .35082$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

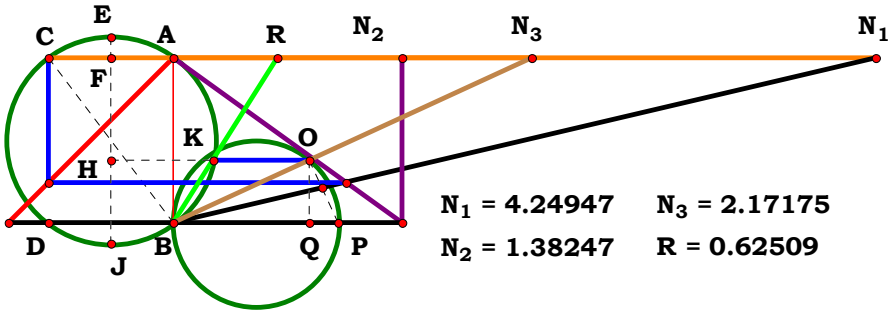
$$\begin{aligned}
 & \frac{2 \cdot N_u^4 \cdot (A + B)}{\left((C^2 + N_u^2) \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right] \right)} = 0.54747 \\
 \text{Den} := & \frac{\left((C^2 + N_u^2) \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right] \right)}{\sqrt{\left[\left((C^2 + N_u^2) \cdot \left[C^2 \cdot (A + B) + N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right] \right)^2 \right]}}
 \end{aligned}$$

$$\text{Num} := \frac{2 \cdot N_u^4 \cdot (A + B)}{\sqrt{\left[2 \cdot N_u^4 \cdot (A + B) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u^4 \cdot \sqrt{\left((C^2 + N_u^2) \cdot \left[N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} + C^2 \cdot (A + B) \right]^2 \cdot (A + B) \right)}}{\sqrt{N_u^8 \cdot (A + B)^2 \cdot \left((C^2 + N_u^2) \cdot \left[N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} + C^2 \cdot (A + B) \right]}}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 4.24947$ $N_2 := 1.38247$ $N_3 := 2.17175$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

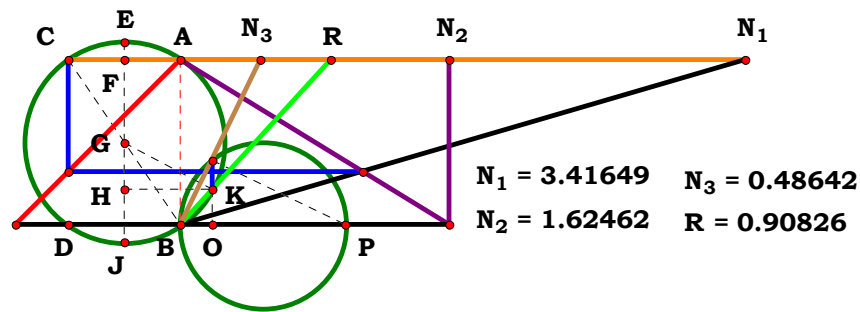
$$\frac{\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2)}{2 \cdot C \cdot N_u \cdot (A + B)} = 0.625087$$

$$Num := \frac{\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2)}{\sqrt{\left[\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2) \right]^2}}$$

$$Den := \frac{2 \cdot C \cdot N_u \cdot (A + B)}{\sqrt{\left[2 \cdot C \cdot N_u \cdot (A + B) \right]^2}} \quad L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\left[\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2) \right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + B)^2}}{C \cdot N_u \cdot \sqrt{\left[\sqrt{B^2 \cdot C^4 + B^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A + B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A + B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (2 \cdot A^2 + 4 \cdot A \cdot B + B^2)} - B \cdot (C^2 + N_u^2) \right]^2 \cdot (A + B)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.41649$ $N_2 := 1.62462$ $N_3 := .48642$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{N_u \cdot (A + B) \cdot (C^2 + N_u^2)} - \sqrt{N_u \cdot [C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)]}} = 0.908272$$

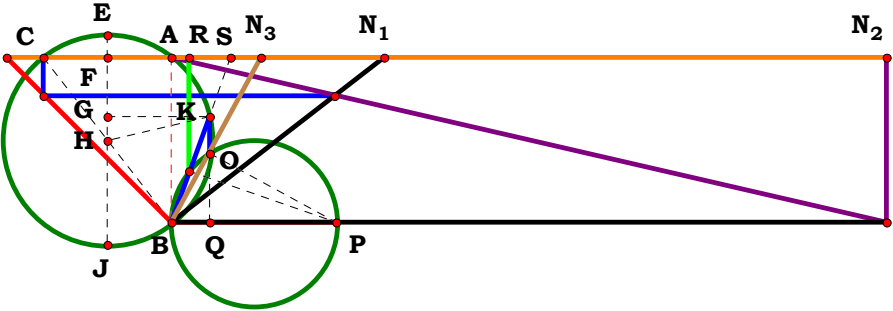
$$Num := \frac{2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{[2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A + B) \cdot (C^2 + N_u^2)} - \sqrt{N_u \cdot [C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)]}}{\sqrt{[\sqrt{N_u \cdot (A + B) \cdot (C^2 + N_u^2)} - \sqrt{N_u \cdot [C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)]}]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u^2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{[\sqrt{N_u \cdot (A + B) \cdot (C^2 + N_u^2)} - \sqrt{N_u \cdot [C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)]}]^2}}{[\sqrt{N_u \cdot (A + B) \cdot (C^2 + N_u^2)} - \sqrt{N_u \cdot [C^4 \cdot (A + B) - N_u^4 \cdot (3 \cdot A + 7 \cdot B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)]}] \cdot \sqrt{N_u^5 \cdot (A + B)}} = 0$$



N₁ = 1.28562
N₂ = 4.32695
N₃ = 0.54454
R = 0.11132

Unit. **AB** := 1 **Given.** **N₁** := 1.28562 **N₂** := 4.32695 **N₃** := .54454

N_u := 3 **A** := $\frac{N_u}{N_1}$ **B** := $\frac{N_u}{N_2}$ **C** := $\frac{N_u}{N_3}$

Descriptions.

$$\frac{2 \cdot N_u^5 \cdot (A + B)}{\left(C^2 + N_u^2\right) \cdot \left[\sqrt{-N_u \cdot \left[N_u^4 \cdot (7 \cdot A + 3 \cdot B) - C^4 \cdot (A + B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)\right]} \cdot \sqrt{N_u \cdot (A + B) - N_u^3 \cdot (A - B) + C^2 \cdot N_u \cdot (A + B)}\right]} = 0.111319$$

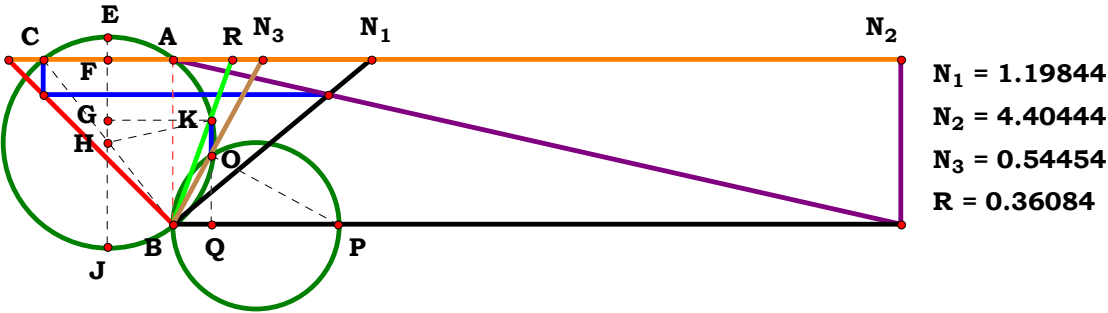
$$\text{Num} := \frac{2 \cdot N_u^5 \cdot (A + B)}{\sqrt{\left[2 \cdot N_u^5 \cdot (A + B)\right]^2}}$$

$$\text{Den} := \frac{\left(C^2 + N_u^2\right) \cdot \left[\sqrt{-N_u \cdot \left[N_u^4 \cdot (7 \cdot A + 3 \cdot B) - C^4 \cdot (A + B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)\right]} \cdot \sqrt{N_u \cdot (A + B) - N_u^3 \cdot (A - B) + C^2 \cdot N_u \cdot (A + B)}\right]}{\sqrt{\left[\left(C^2 + N_u^2\right) \cdot \left[\sqrt{-N_u \cdot \left[N_u^4 \cdot (7 \cdot A + 3 \cdot B) - C^4 \cdot (A + B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)\right]} \cdot \sqrt{N_u \cdot (A + B) - N_u^3 \cdot (A - B) + C^2 \cdot N_u \cdot (A + B)}\right]\right]^2}}$$

$$\text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 **Den** = 1 **L** = 1

$$\text{L} - \frac{N_u^5 \cdot \sqrt{\left(C^2 + N_u^2\right)^2 \cdot \left[\sqrt{-N_u \cdot \left[N_u^4 \cdot (7 \cdot A + 3 \cdot B) - C^4 \cdot (A + B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)\right]} \cdot \sqrt{N_u \cdot (A + B) - N_u^3 \cdot (A - B) + C^2 \cdot N_u \cdot (A + B)}\right]^2 \cdot (A + B)}}{\sqrt{N_u^{10} \cdot (A + B)^2 \cdot \left(C^2 + N_u^2\right) \cdot \left[\sqrt{-N_u \cdot \left[N_u^4 \cdot (7 \cdot A + 3 \cdot B) - C^4 \cdot (A + B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)\right]} \cdot \sqrt{N_u \cdot (A + B) - N_u^3 \cdot (A - B) + C^2 \cdot N_u \cdot (A + B)}\right]}} = 0$$



Unit. **AB** := 1 Given. **N₁** := 1.19844 **N₂** := 4.40444 **N₃** := .54454

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{2 \cdot \mathbf{N_u}^2 \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})}}{\sqrt{\mathbf{N_u} \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^4 + -2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{N_u}^4 \cdot (7 \cdot \mathbf{A} + 3 \cdot \mathbf{B}) \right]} + \sqrt{\left[\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2 \right)}} = \mathbf{0.360842}$$

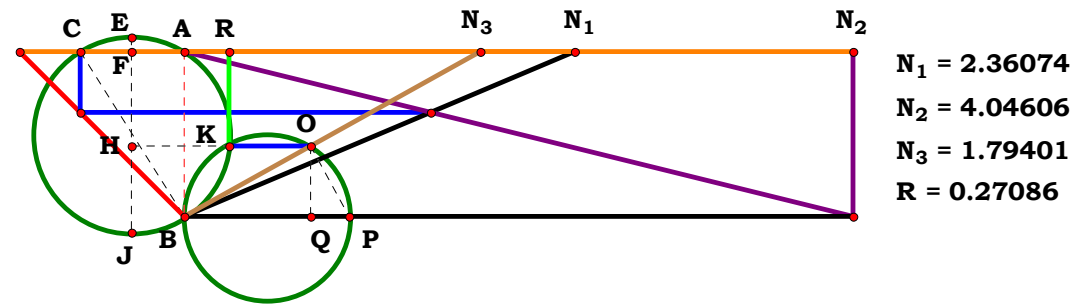
$$\mathbf{Num} := \frac{2 \cdot \mathbf{N_u}^2 \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})}}{\sqrt{\left[2 \cdot \mathbf{N_u}^2 \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})} \right]^2}}$$

$$\mathbf{Den} := \frac{\sqrt{\mathbf{N_u} \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^4 + -2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{N_u}^4 \cdot (7 \cdot \mathbf{A} + 3 \cdot \mathbf{B}) \right]} + \sqrt{\left[\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2 \right)}}{\sqrt{\left[\sqrt{\mathbf{N_u} \cdot \left[(\mathbf{A} + \mathbf{B}) \cdot \mathbf{C}^4 + -2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B}) - \mathbf{N_u}^4 \cdot (7 \cdot \mathbf{A} + 3 \cdot \mathbf{B}) \right]} + \sqrt{\left[\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \right] \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2 \right)} \right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{Num} = 1 \quad \mathbf{Den} = 1 \quad \mathbf{L} = 1$$

$$\mathbf{L} - \frac{\mathbf{N_u}^2 \cdot \sqrt{\left[\sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2 \right)} + \sqrt{-\mathbf{N_u} \cdot \left[\mathbf{N_u}^4 \cdot (7 \cdot \mathbf{A} + 3 \cdot \mathbf{B}) - \mathbf{C}^4 \cdot (\mathbf{A} + \mathbf{B}) + 2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B}) \right]} \right]^2 \cdot \sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B})}}{\left[\sqrt{\mathbf{N_u} \cdot (\mathbf{A} + \mathbf{B}) \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2 \right)} + \sqrt{-\mathbf{N_u} \cdot \left[\mathbf{N_u}^4 \cdot (7 \cdot \mathbf{A} + 3 \cdot \mathbf{B}) - \mathbf{C}^4 \cdot (\mathbf{A} + \mathbf{B}) + 2 \cdot \mathbf{C}^2 \cdot \mathbf{N_u}^2 \cdot (\mathbf{A} - \mathbf{B}) \right]} \right] \cdot \sqrt{\mathbf{N_u}^5 \cdot (\mathbf{A} + \mathbf{B})}} = \mathbf{0}$$


4RST10AAB4R2

Unit. AB := 1 **Given.** $N_1 := 2.36074$ $N_2 := 4.04606$ $N_3 := 1.79401$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

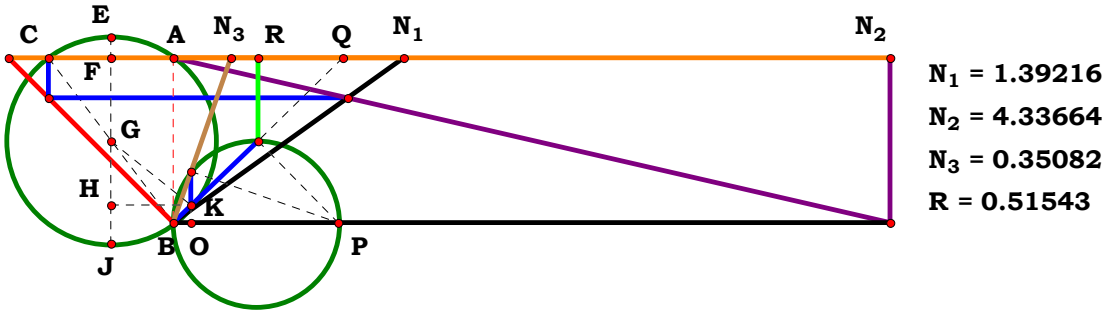
$$\frac{\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^4 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 + 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} + \mathbf{B})^2 + 4 \cdot \mathbf{C}^3 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})^2 - 2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + 4 \cdot \mathbf{A} \cdot \mathbf{B} + 2 \cdot \mathbf{B}^2) - \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}}{2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})} = \mathbf{0.270857}$$

$$\text{Num} := \frac{\sqrt{A^2 \cdot C^4 + A^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A+B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A+B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C^2 + N_u^2)}{\sqrt{\left[\sqrt{A^2 \cdot C^4 + A^2 \cdot N_u^4 + 4 \cdot C \cdot N_u^3 \cdot (A+B)^2 + 4 \cdot C^3 \cdot N_u \cdot (A+B)^2 - 2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2)} - A \cdot (C^2 + N_u^2) \right]^2}}$$

$$\text{Den} := \frac{2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}{\sqrt{\left[2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})\right]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\left(2 \cdot \mathbf{C}^2 + 2 \cdot \mathbf{N}_{\mathbf{u}}^2\right)^2 \cdot (\mathbf{A} + \mathbf{B})^2 \cdot \left[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^4 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 + 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} + \mathbf{B})^2 + 4 \cdot \mathbf{C}^3 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})^2 - 2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + 4 \cdot \mathbf{A} \cdot \mathbf{B} + 2 \cdot \mathbf{B}^2)} - \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)\right]}}{\sqrt{\left[\sqrt{\mathbf{A}^2 \cdot \mathbf{C}^4 + \mathbf{A}^2 \cdot \mathbf{N}_{\mathbf{u}}^4 + 4 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}}^3 \cdot (\mathbf{A} + \mathbf{B})^2 + 4 \cdot \mathbf{C}^3 \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{A} + \mathbf{B})^2 - 2 \cdot \mathbf{C}^2 \cdot \mathbf{N}_{\mathbf{u}}^2 \cdot (\mathbf{A}^2 + 4 \cdot \mathbf{A} \cdot \mathbf{B} + 2 \cdot \mathbf{B}^2)} - \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)\right]^2 \cdot (2 \cdot \mathbf{C}^2 + 2 \cdot \mathbf{N}_{\mathbf{u}}^2) \cdot (\mathbf{A} + \mathbf{B})}} = \mathbf{0}$$



Unit. **AB := 1** Given. **N₁ := 1.39216 N₂ := 4.33664 N₃ := .35082**

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

**N₁ = 1.39216
N₂ = 4.33664
N₃ = 0.35082
R = 0.51543**

Descriptions.

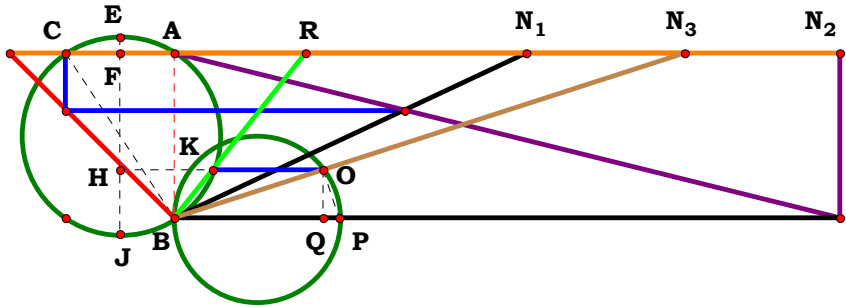
$$\frac{2 \cdot N_u^4 \cdot (A + B)}{\left(C^2 + N_u^2 \right) \cdot \left[C^2 \cdot (A + B) - N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (7 \cdot A + 3 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right]} = 0.51543$$
$$\text{Den} := \frac{\left(C^2 + N_u^2 \right) \cdot \left[C^2 \cdot (A + B) - N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (7 \cdot A + 3 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right]}{\sqrt{\left[\left(C^2 + N_u^2 \right) \cdot \left[C^2 \cdot (A + B) - N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (7 \cdot A + 3 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right] \right]^2}}$$

$$\text{Num} := \frac{2 \cdot N_u^4 \cdot (A + B)}{\sqrt{\left[2 \cdot N_u^4 \cdot (A + B) \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^4 \cdot (A + B) \cdot \sqrt{\left(C^2 + N_u^2 \right)^2 \cdot \left[C^2 \cdot (A + B) - N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (7 \cdot A + 3 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right]^2}}{\sqrt{N_u^8 \cdot (A + B)^2 \cdot \left(C^2 + N_u^2 \right) \cdot \left[C^2 \cdot (A + B) - N_u^2 \cdot (A - B) - \sqrt{(A + B) \cdot \left[C^4 \cdot (A + B) - N_u^4 \cdot (7 \cdot A + 3 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) \right]} \right]}} = 0$$



$N_1 = 2.12828$
 $N_2 = 4.02669$
 $N_3 = 3.09190$
 $R = 0.79682$

Unit. $AB := 1$ Given. $N_1 := 2.12828$ $N_2 := 4.02669$ $N_3 := 3.09190$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

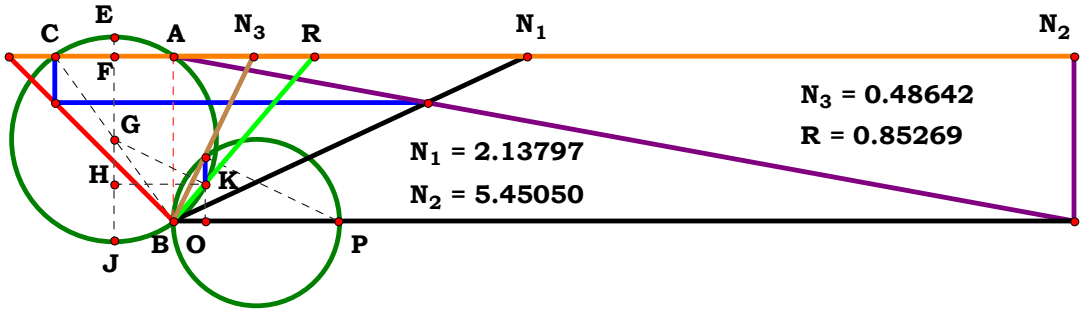
$$\frac{\sqrt{A^2 \cdot (C^4 + N_u^4) - 2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) + 4 \cdot C \cdot N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2 - A \cdot (C^2 + N_u^2)}}{2 \cdot C \cdot N_u \cdot (A + B)} = 0.796824$$

$$Num := \frac{\sqrt{A^2 \cdot (C^4 + N_u^4) - 2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) + 4 \cdot C \cdot N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2 - A \cdot (C^2 + N_u^2)}}{\sqrt{\left[\sqrt{A^2 \cdot (C^4 + N_u^4) - 2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) + 4 \cdot C \cdot N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2 - A \cdot (C^2 + N_u^2)}\right]^2}}$$

$Den := \frac{2 \cdot C \cdot N_u \cdot (A + B)}{\sqrt{\left[2 \cdot C \cdot N_u \cdot (A + B)\right]^2}}$ $L := \frac{Num}{Den}$

$Num = 1$ $Den = 1$ $L = 1$

$$L - \frac{\left[\sqrt{A^2 \cdot (C^4 + N_u^4) - 2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) + 4 \cdot C \cdot N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2 - A \cdot (C^2 + N_u^2)}\right] \cdot \sqrt{C^2 \cdot N_u^2 \cdot (A + B)^2}}{C \cdot N_u \cdot (A + B) \cdot \sqrt{\left[\sqrt{A^2 \cdot (C^4 + N_u^4) - 2 \cdot C^2 \cdot N_u^2 \cdot (A^2 + 4 \cdot A \cdot B + 2 \cdot B^2) + 4 \cdot C \cdot N_u \cdot (C^2 + N_u^2) \cdot (A + B)^2 - A \cdot (C^2 + N_u^2)}\right]^2}} = 0$$



Unit. AB := 1 Given. N₁ := 2.13797 N₂ := 5.45050 N₃ := .48642

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{N_u \cdot (A + B)} \cdot (C^2 + N_u^2) - \sqrt{N_u} \cdot [(A + B) \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) - N_u^4 \cdot (7 \cdot A + 3 \cdot B)]} = 0.852704$$

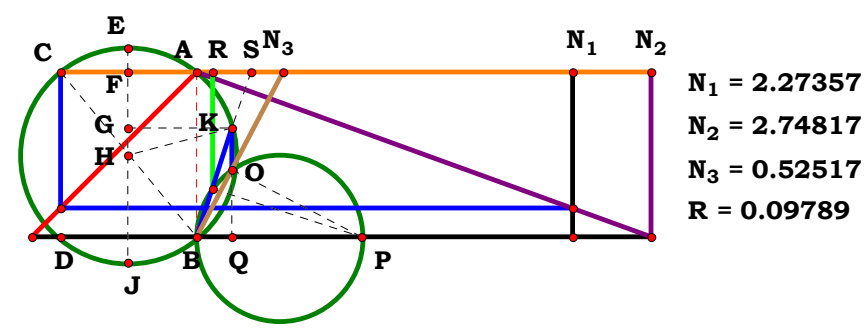
$$Num := \frac{2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{[2 \cdot N_u^2 \cdot \sqrt{N_u \cdot (A + B)}]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A + B)} \cdot (C^2 + N_u^2) - \sqrt{N_u} \cdot [(A + B) \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) - N_u^4 \cdot (7 \cdot A + 3 \cdot B)]}{\sqrt{[\sqrt{N_u \cdot (A + B)} \cdot (C^2 + N_u^2) - \sqrt{N_u} \cdot [(A + B) \cdot C^4 - 2 \cdot C^2 \cdot N_u^2 \cdot (A - B) - N_u^4 \cdot (7 \cdot A + 3 \cdot B)]]^2}}$$

$$L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{N_u^2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{[\sqrt{N_u \cdot (A + B)} \cdot (C^2 + N_u^2) - \sqrt{-N_u} \cdot [N_u^4 \cdot (7 \cdot A + 3 \cdot B) - C^4 \cdot (A + B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)]]^2}}{[\sqrt{N_u \cdot (A + B)} \cdot (C^2 + N_u^2) - \sqrt{-N_u} \cdot [N_u^4 \cdot (7 \cdot A + 3 \cdot B) - C^4 \cdot (A + B) + 2 \cdot C^2 \cdot N_u^2 \cdot (A - B)]] \cdot \sqrt{N_u^5 \cdot (A + B)}} = 0$$



Unit. AB := 1 Given. N₁ := 2.27357 N₂ := 2.74817 N₃ := .52517

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

Descriptions.

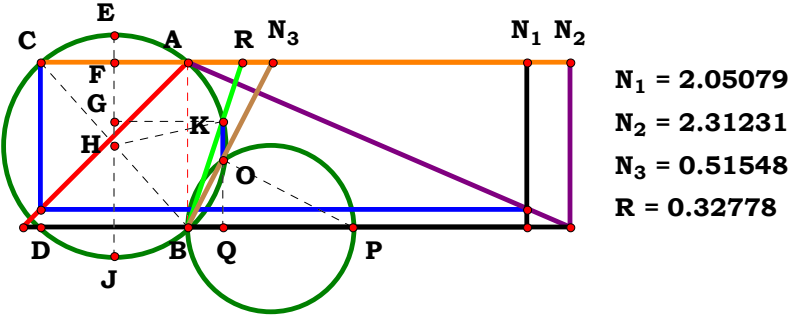
$$\frac{2 \cdot (\sqrt{A})^2 \cdot N_u^4}{\left(C^2 + N_u^2 \right) \cdot \left[\sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (3 \cdot A + 4 \cdot B)} + 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B) + A \cdot C^2 + N_u^2 \cdot (A - 2 \cdot B) \right]} = 0.097888$$
$$\text{Den} := \frac{\left(C^2 + N_u^2 \right) \cdot \left[\sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (3 \cdot A + 4 \cdot B)} + 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B) + A \cdot C^2 + N_u^2 \cdot (A - 2 \cdot B) \right]}{\sqrt{\left[\left(C^2 + N_u^2 \right) \cdot \left[\sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (3 \cdot A + 4 \cdot B)} + 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B) + A \cdot C^2 + N_u^2 \cdot (A - 2 \cdot B) \right] \right]^2}}$$

$$\text{Num} := \frac{2 \cdot (\sqrt{A})^2 \cdot N_u^4}{\sqrt{\left[2 \cdot (\sqrt{A})^2 \cdot N_u^4 \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{A \cdot N_u^4 \cdot \sqrt{\left(C^2 + N_u^2 \right)^2 \cdot \left[N_u^2 \cdot (A - 2 \cdot B) + \sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (3 \cdot A + 4 \cdot B)} + 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B) + A \cdot C^2 \right]^2}}{\sqrt{A^2 \cdot N_u^8 \cdot \left(C^2 + N_u^2 \right) \cdot \left[N_u^2 \cdot (A - 2 \cdot B) + \sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (3 \cdot A + 4 \cdot B)} + 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B) + A \cdot C^2 \right]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.05079$ $N_2 := 2.31231$ $N_3 := .51548$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) + \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot \left(C^2 - N_u^2\right) \cdot \left(C^2 + 3 \cdot N_u^2\right) - 4 \cdot B \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)\right]} = 0.327778$$

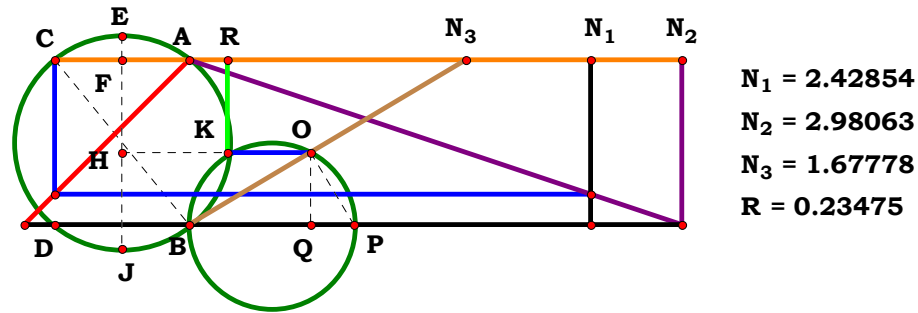
$$Num := \frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}\right]^2}}$$

$$Den := \frac{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) + \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot \left(C^2 - N_u^2\right) \cdot \left(C^2 + 3 \cdot N_u^2\right) - 4 \cdot B \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)\right]}{\sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) + \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot \left(C^2 - N_u^2\right) \cdot \left(C^2 + 3 \cdot N_u^2\right) - 4 \cdot B \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)\right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} \cdot \sqrt{\left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot \left(C^2 - N_u^2\right) \cdot \left(C^2 + 3 \cdot N_u^2\right) - 4 \cdot B \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)\right] + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(C^2 + N_u^2\right)\right]^2}}{\left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot \left(C^2 - N_u^2\right) \cdot \left(C^2 + 3 \cdot N_u^2\right) - 4 \cdot B \cdot N_u^2 \cdot \left(C^2 + N_u^2\right)\right] + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(C^2 + N_u^2\right)\right] \cdot \sqrt{A \cdot B \cdot N_u^5}} = 0$$



Unit. AB := 1 Given. $N_1 := 2.42854$ $N_2 := 2.98063$ $N_3 := 1.67778$

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

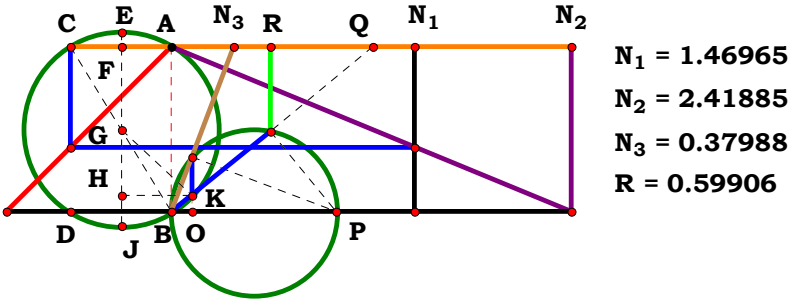
$$\frac{\sqrt{4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 - \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2) + \mathbf{B}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 - \mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}}{2 \cdot \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)} = \mathbf{0.234749}$$

$$\mathbf{Num} := \frac{\sqrt{4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 - \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2) + \mathbf{B}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 - \mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)}}{\sqrt{\left[\sqrt{4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} \cdot (\mathbf{C}^2 - \mathbf{C} \cdot \mathbf{N}_{\mathbf{u}} + \mathbf{N}_{\mathbf{u}}^2) + \mathbf{B}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)^2 - \mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_{\mathbf{u}}^2)} \right]^2}}$$

$$\mathbf{Den} := \frac{2 \cdot \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2)}{\sqrt{[2 \cdot \mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N_u}^2)]^2}} \quad \mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\mathbf{A}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)^2} \cdot \left[\mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) - \sqrt{\mathbf{B}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{N}_u \cdot (\mathbf{C}^2 - \mathbf{C} \cdot \mathbf{N}_u + \mathbf{N}_u^2)} \right]}{\mathbf{A} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) \cdot \sqrt{\left[\mathbf{B} \cdot (\mathbf{C}^2 + \mathbf{N}_u^2) - \sqrt{\mathbf{B}^2 \cdot (\mathbf{C}^2 + \mathbf{N}_u^2)^2 + 4 \cdot \mathbf{A}^2 \cdot \mathbf{C} \cdot \mathbf{N}_u \cdot (\mathbf{C}^2 - \mathbf{C} \cdot \mathbf{N}_u + \mathbf{N}_u^2)} \right]^2}} = 0$$



Unit. **AB** := 1 Given. **N₁** := 1.46965 **N₂** := 2.41885 **N₃** := .37988

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{2 \cdot (\sqrt{\mathbf{A}})^2 \cdot \mathbf{N_u}^4}{\left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left[\mathbf{A} \cdot \mathbf{C}^2 - \sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A}} \cdot \left(\mathbf{C}^2 - \mathbf{N_u}^2\right) \cdot \left(\mathbf{C}^2 + 3 \cdot \mathbf{N_u}^2\right) - 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) + \mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right)\right]} = \mathbf{0.599061}$$

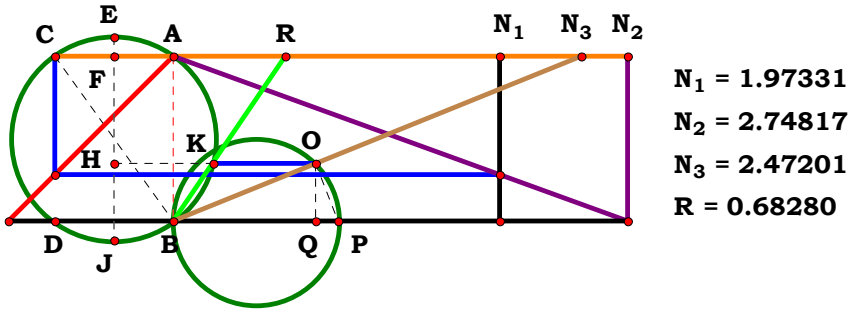
$$\mathbf{Num} := \frac{2 \cdot (\sqrt{\mathbf{A}})^2 \cdot \mathbf{N_u}^4}{\sqrt{\left[2 \cdot (\sqrt{\mathbf{A}})^2 \cdot \mathbf{N_u}^4\right]^2}}$$

$$\mathbf{Den} := \frac{\left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left[\mathbf{A} \cdot \mathbf{C}^2 - \sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A}} \cdot \left(\mathbf{C}^2 - \mathbf{N_u}^2\right) \cdot \left(\mathbf{C}^2 + 3 \cdot \mathbf{N_u}^2\right) - 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) + \mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right)\right]}{\sqrt{\left[\left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left[\mathbf{A} \cdot \mathbf{C}^2 - \sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A}} \cdot \left(\mathbf{C}^2 - \mathbf{N_u}^2\right) \cdot \left(\mathbf{C}^2 + 3 \cdot \mathbf{N_u}^2\right) - 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) + \mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right)\right]\right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{Num} = \mathbf{1} \quad \mathbf{Den} = \mathbf{1} \quad \mathbf{L} = \mathbf{1}$$

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N_u}^4 \cdot \sqrt{\left(\mathbf{C}^2 + \mathbf{N_u}^2\right)^2 \cdot \left[\mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right) - \sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A}} \cdot \left(\mathbf{C}^2 - \mathbf{N_u}^2\right) \cdot \left(\mathbf{C}^2 + 3 \cdot \mathbf{N_u}^2\right) - 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) + \mathbf{A} \cdot \mathbf{C}^2\right]^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^8 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left[\mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right) - \sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A}} \cdot \left(\mathbf{C}^2 - \mathbf{N_u}^2\right) \cdot \left(\mathbf{C}^2 + 3 \cdot \mathbf{N_u}^2\right) - 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) + \mathbf{A} \cdot \mathbf{C}^2\right]}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := 2.47201$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

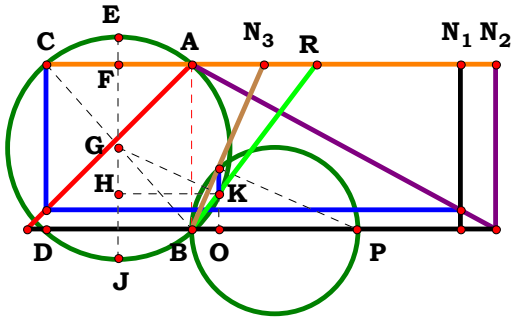
$$\frac{\sqrt{4 \cdot A^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)}}{2 \cdot A \cdot C \cdot N_u} = 0.682803$$

$$Num := \frac{\sqrt{4 \cdot A^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)}}{\sqrt{\left[\sqrt{4 \cdot A^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)} \right]^2}}$$

$$Den := \frac{2 \cdot A \cdot C \cdot N_u}{\sqrt{(2 \cdot A \cdot C \cdot N_u)^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{4 \cdot A^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)} \right] \cdot \sqrt{A^2 \cdot C^2 \cdot N_u^2}}{A \cdot C \cdot N_u \cdot \sqrt{\left[\sqrt{4 \cdot A^2 \cdot C \cdot N_u \cdot (C^2 - C \cdot N_u + N_u^2) + B^2 \cdot (C^2 + N_u^2)^2 - B \cdot (C^2 + N_u^2)} \right]^2}} = 0$$



N₁ = 1.62462
N₂ = 1.83771
N₃ = 0.43800
R = 0.75214

Unit. AB := 1 Given. N₁ := 1.62462 N₂ := 1.83771 N₃ := .43800

N_u := 3 A := $\frac{N_u}{N_1}$ B := $\frac{N_u}{N_2}$ C := $\frac{N_u}{N_3}$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot C^4 - N_u^4 \cdot \left(3 \cdot A + 4 \cdot B\right) + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]} = 0.752138$$

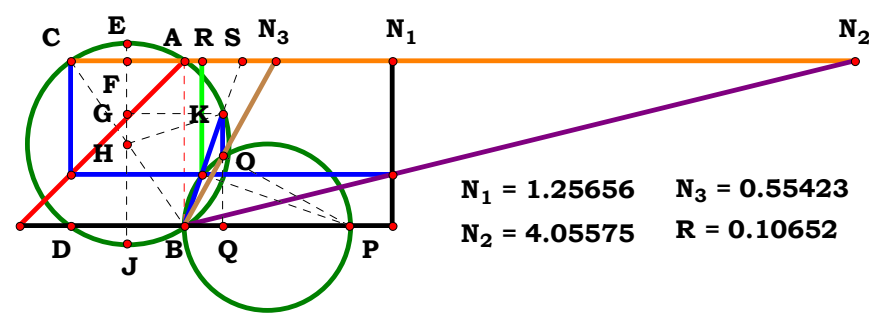
Num :=
$$\frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}\right]^2}}$$

Den :=
$$\frac{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot C^4 - N_u^4 \cdot \left(3 \cdot A + 4 \cdot B\right) + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]}{\sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot C^4 - N_u^4 \cdot \left(3 \cdot A + 4 \cdot B\right) + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]\right]^2}}$$

L :=
$$\frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

L -
$$\frac{N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} \cdot \sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot C^4 - N_u^4 \cdot \left(3 \cdot A + 4 \cdot B\right) + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]\right]^2}}{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{N_u} \cdot \left[A \cdot C^4 - N_u^4 \cdot \left(3 \cdot A + 4 \cdot B\right) + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]\right] \cdot \sqrt{A \cdot B \cdot N_u^5}} = 0$$



Unit. **AB** := 1 Given. **N₁** := 1.25656 **N₂** := 4.05575 **N₃** := .55423

$$\mathbf{N_u} := 3 \quad \mathbf{A} := \frac{\mathbf{N_u}}{\mathbf{N_1}} \quad \mathbf{B} := \frac{\mathbf{N_u}}{\mathbf{N_2}} \quad \mathbf{C} := \frac{\mathbf{N_u}}{\mathbf{N_3}}$$

Descriptions.

$$\frac{2 \cdot (\sqrt{\mathbf{A}})^2 \cdot \mathbf{N_u}^4}{\left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left[\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C}^4 - \mathbf{A} \cdot \mathbf{N_u}^2 \cdot \left(2 \cdot \mathbf{C}^2 + 7 \cdot \mathbf{N_u}^2\right) + 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) + \mathbf{A} \cdot \mathbf{C}^2 - \mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right)}\right]} = \mathbf{0.106528}$$

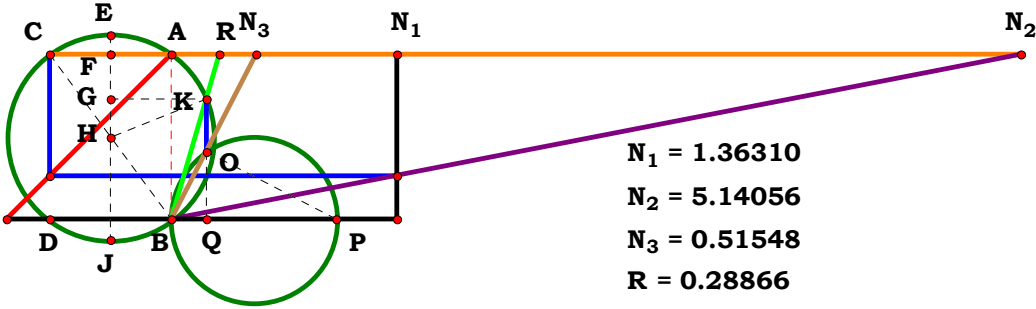
$$\mathbf{Den} := \frac{\left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left[\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C}^4 - \mathbf{A} \cdot \mathbf{N_u}^2 \cdot \left(2 \cdot \mathbf{C}^2 + 7 \cdot \mathbf{N_u}^2\right) + 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) + \mathbf{A} \cdot \mathbf{C}^2 - \mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right)}\right]}{\sqrt{\left[\left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left[\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C}^4 - \mathbf{A} \cdot \mathbf{N_u}^2 \cdot \left(2 \cdot \mathbf{C}^2 + 7 \cdot \mathbf{N_u}^2\right) + 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) + \mathbf{A} \cdot \mathbf{C}^2 - \mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right)}\right]\right]^2}}$$

$$\mathbf{Num} := \frac{2 \cdot (\sqrt{\mathbf{A}})^2 \cdot \mathbf{N_u}^4}{\sqrt{\left[2 \cdot (\sqrt{\mathbf{A}})^2 \cdot \mathbf{N_u}^4\right]^2}}$$

$$\mathbf{L} := \frac{\mathbf{Num}}{\mathbf{Den}}$$

$$\mathbf{Num} = \mathbf{1} \quad \mathbf{Den} = \mathbf{1} \quad \mathbf{L} = \mathbf{1}$$

$$\mathbf{L} - \frac{\mathbf{A} \cdot \mathbf{N_u}^4 \cdot \sqrt{\left(\mathbf{C}^2 + \mathbf{N_u}^2\right)^2 \cdot \left[\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C}^4 - \mathbf{A} \cdot \mathbf{N_u}^2 \cdot \left(2 \cdot \mathbf{C}^2 + 7 \cdot \mathbf{N_u}^2\right) + 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) - \mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right) + \mathbf{A} \cdot \mathbf{C}^2}\right]^2}}{\sqrt{\mathbf{A}^2 \cdot \mathbf{N_u}^8 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) \cdot \left[\sqrt{\mathbf{A}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{C}^4 - \mathbf{A} \cdot \mathbf{N_u}^2 \cdot \left(2 \cdot \mathbf{C}^2 + 7 \cdot \mathbf{N_u}^2\right) + 4 \cdot \mathbf{B} \cdot \mathbf{N_u}^2 \cdot \left(\mathbf{C}^2 + \mathbf{N_u}^2\right) - \mathbf{N_u}^2 \cdot \left(\mathbf{A} - 2 \cdot \mathbf{B}\right) + \mathbf{A} \cdot \mathbf{C}^2}\right]}} = \mathbf{0}$$



Unit. $AB := 1$ Given. $N_1 := 1.36310$ $N_2 := 5.14056$ $N_3 := .51548$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{B} \cdot \sqrt{N_u} \cdot \left(A \cdot C^4 - 7 \cdot A \cdot N_u^4 + 4 \cdot B \cdot N_u^4 - 2 \cdot A \cdot C^2 \cdot N_u^2 + 4 \cdot B \cdot C^2 \cdot N_u^2\right) + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(C^2 + N_u^2\right)} = 0.288656$$

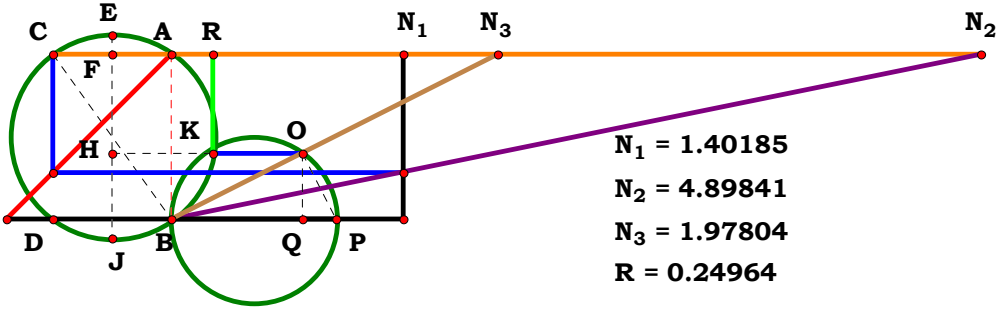
$$\text{Den} := \frac{\sqrt{B} \cdot \sqrt{N_u} \cdot \left(A \cdot C^4 - 7 \cdot A \cdot N_u^4 + 4 \cdot B \cdot N_u^4 - 2 \cdot A \cdot C^2 \cdot N_u^2 + 4 \cdot B \cdot C^2 \cdot N_u^2\right) + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left(A \cdot C^4 - 7 \cdot A \cdot N_u^4 + 4 \cdot B \cdot N_u^4 - 2 \cdot A \cdot C^2 \cdot N_u^2 + 4 \cdot B \cdot C^2 \cdot N_u^2\right) + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(C^2 + N_u^2\right)\right]^2}}$$

$$\text{Num} := \frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}\right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} \cdot \sqrt{\left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left(A \cdot C^4 - 7 \cdot A \cdot N_u^4 + 4 \cdot B \cdot N_u^4 - 2 \cdot A \cdot C^2 \cdot N_u^2 + 4 \cdot B \cdot C^2 \cdot N_u^2\right) + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(C^2 + N_u^2\right)\right]^2}}{\left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left(A \cdot C^4 - 7 \cdot A \cdot N_u^4 + 4 \cdot B \cdot N_u^4 - 2 \cdot A \cdot C^2 \cdot N_u^2 + 4 \cdot B \cdot C^2 \cdot N_u^2\right) + \sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(C^2 + N_u^2\right)\right] \cdot \sqrt{A \cdot B \cdot N_u^5}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.40185$ $N_2 := 4.89841$ $N_3 := 1.97804$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

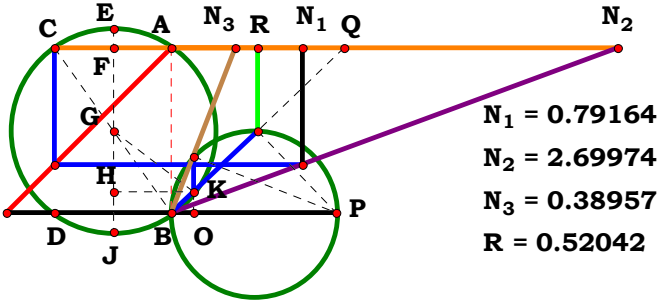
$$\frac{\sqrt{A^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) - B \cdot \left(C^2 + N_u^2\right)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}}{2 \cdot A \cdot \left(C^2 + N_u^2\right)} = 0.249644$$

$$Num := \frac{\sqrt{A^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) - B \cdot \left(C^2 + N_u^2\right)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}}{\sqrt{\left[\sqrt{A^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) - B \cdot \left(C^2 + N_u^2\right)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[2 \cdot A \cdot \left(C^2 + N_u^2\right)\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\sqrt{A^2 \cdot \left(C^2 + N_u^2\right)^2} \cdot \left[\sqrt{A^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) - B \cdot \left(C^2 + N_u^2\right)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}\right]}{A \cdot \sqrt{\left[\sqrt{A^2 \cdot \left(C^4 + 4 \cdot C^3 \cdot N_u - 2 \cdot C^2 \cdot N_u^2 + 4 \cdot C \cdot N_u^3 + N_u^4\right) - B \cdot \left(C^2 + N_u^2\right)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}\right]^2} \cdot \left(C^2 + N_u^2\right)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .79164$ $N_2 := 2.69974$ $N_3 := .38957$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot (\sqrt{A})^2 \cdot N_u^4}{\left(C^2 + N_u^2 \right) \cdot \left[A \cdot C^2 - N_u^2 \cdot (A - 2 \cdot B) - \sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (7 \cdot A - 4 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B)} \right]} = 0.520417$$

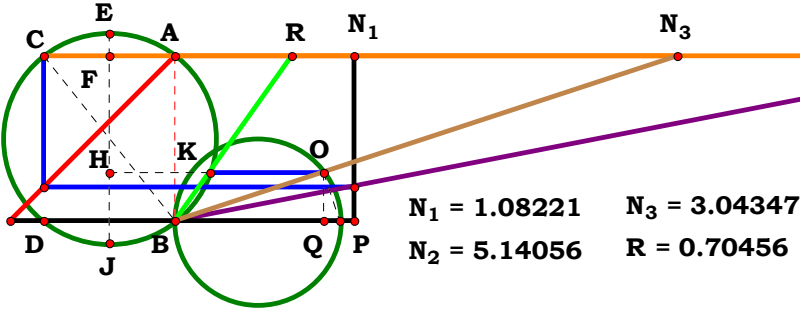
$$Num := \frac{2 \cdot (\sqrt{A})^2 \cdot N_u^4}{\sqrt{\left[2 \cdot (\sqrt{A})^2 \cdot N_u^4 \right]^2}}$$

$$Den := \frac{\left(C^2 + N_u^2 \right) \cdot \left[A \cdot C^2 - N_u^2 \cdot (A - 2 \cdot B) - \sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (7 \cdot A - 4 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B)} \right]}{\sqrt{\left[\left(C^2 + N_u^2 \right) \cdot \left[A \cdot C^2 - N_u^2 \cdot (A - 2 \cdot B) - \sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (7 \cdot A - 4 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B)} \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{(\sqrt{A})^2 \cdot N_u^4 \cdot \sqrt{\left(C^2 + N_u^2 \right)^2 \cdot \left[N_u^2 \cdot (A - 2 \cdot B) + \sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (7 \cdot A - 4 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B) - A \cdot C^2} \right]^2}}{\sqrt{A^2 \cdot N_u^8 \cdot \left(C^2 + N_u^2 \right) \cdot \left[A \cdot C^2 - \sqrt{A} \cdot \sqrt{A \cdot C^4 - N_u^4 \cdot (7 \cdot A - 4 \cdot B) - 2 \cdot C^2 \cdot N_u^2 \cdot (A - 2 \cdot B)} - A \cdot N_u^2 + 2 \cdot B \cdot N_u^2 \right]}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.08221$ $N_2 := 5.14056$ $N_3 := 3.04347$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

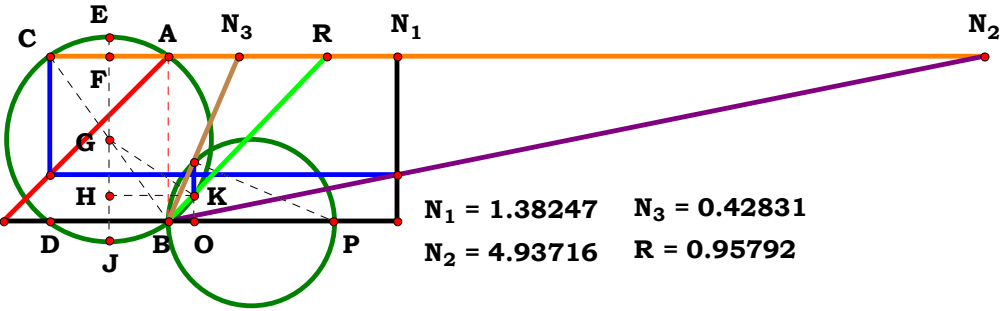
$$\frac{\sqrt{A^2 \cdot C^4 + 2 \cdot A^2 \cdot C^2 \cdot N_u \cdot (2 \cdot C - N_u) + A^2 \cdot N_u^3 \cdot (4 \cdot C + N_u) - B \cdot (C^2 + N_u^2)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}}{2 \cdot N_u \cdot A \cdot C} = 0.704559$$

$$Num := \frac{\sqrt{A^2 \cdot C^4 + 2 \cdot A^2 \cdot C^2 \cdot N_u \cdot (2 \cdot C - N_u) + A^2 \cdot N_u^3 \cdot (4 \cdot C + N_u) - B \cdot (C^2 + N_u^2)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}}{\sqrt{\left[\sqrt{A^2 \cdot C^4 + 2 \cdot A^2 \cdot C^2 \cdot N_u \cdot (2 \cdot C - N_u) + A^2 \cdot N_u^3 \cdot (4 \cdot C + N_u) - B \cdot (C^2 + N_u^2)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}\right]^2}}$$

$$Den := \frac{2 \cdot N_u \cdot A \cdot C}{\sqrt{(2 \cdot N_u \cdot A \cdot C)^2}} \qquad L := \frac{Num}{Den}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{A^2 \cdot C^2 \cdot N_u^2} \cdot \left[\sqrt{A^2 \cdot C^4 + 2 \cdot A^2 \cdot C^2 \cdot N_u \cdot (2 \cdot C - N_u) + A^2 \cdot N_u^3 \cdot (4 \cdot C + N_u) - B \cdot (C^2 + N_u^2)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}\right]}{A \cdot C \cdot N_u \cdot \sqrt{\left[\sqrt{A^2 \cdot C^4 + 2 \cdot A^2 \cdot C^2 \cdot N_u \cdot (2 \cdot C - N_u) + A^2 \cdot N_u^3 \cdot (4 \cdot C + N_u) - B \cdot (C^2 + N_u^2)^2 \cdot (2 \cdot A - B) - C^2 \cdot (A - B) - N_u^2 \cdot (A - B)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.38247$ $N_2 := 4.93716$ $N_3 := .42831$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{-N_u} \cdot \left[N_u^4 \cdot \left(7 \cdot A - 4 \cdot B\right) - A \cdot C^4 + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]} = 0.957918$$

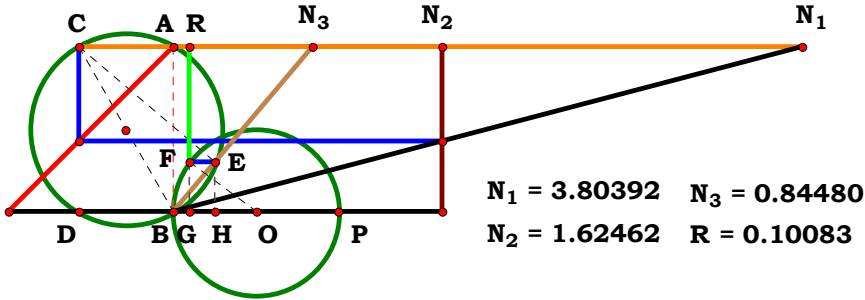
$$Num := \frac{2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}}{\sqrt{\left[2 \cdot \left(\sqrt{N_u}\right)^5 \cdot \sqrt{A \cdot B}\right]^2}}$$

$$Den := \frac{\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{-N_u} \cdot \left[N_u^4 \cdot \left(7 \cdot A - 4 \cdot B\right) - A \cdot C^4 + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]}{\sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{-N_u} \cdot \left[N_u^4 \cdot \left(7 \cdot A - 4 \cdot B\right) - A \cdot C^4 + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]\right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} \cdot \sqrt{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{-N_u} \cdot \left[N_u^4 \cdot \left(7 \cdot A - 4 \cdot B\right) - A \cdot C^4 + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]\right]^2}}{\left[\sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left(C^2 + N_u^2\right) - \sqrt{B} \cdot \sqrt{-N_u} \cdot \left[N_u^4 \cdot \left(7 \cdot A - 4 \cdot B\right) - A \cdot C^4 + 2 \cdot C^2 \cdot N_u^2 \cdot \left(A - 2 \cdot B\right)\right]\right] \cdot \sqrt{A \cdot B \cdot N_u^5}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.80392$ $N_2 := 1.62462$ $N_3 := .84480$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

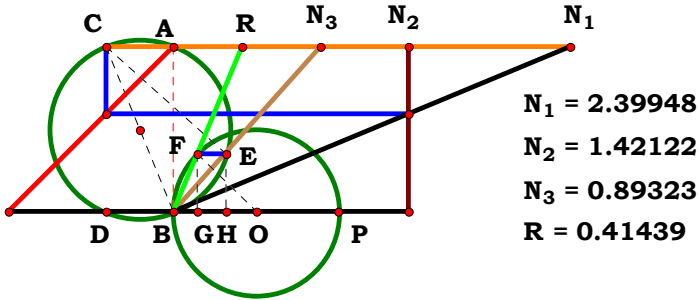
$$\frac{B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}}{2 \cdot \left(C^2 + N_u^2\right) \cdot B} = 0.100834$$

$$Num := \frac{B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}}{\sqrt{\left[B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}\right]^2}}$$

$$Den := \frac{2 \cdot \left(C^2 + N_u^2\right) \cdot B}{\sqrt{\left[2 \cdot \left(C^2 + N_u^2\right) \cdot B\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}\right] \cdot \sqrt{B^2 \cdot \left(2 \cdot C^2 + 2 \cdot N_u^2\right)^2}}{B \cdot \left(2 \cdot C^2 + 2 \cdot N_u^2\right) \cdot \sqrt{\left[B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := .89323$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

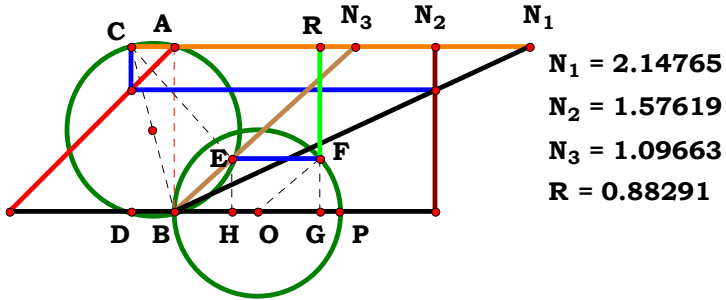
$$\frac{B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}}{2 \cdot C \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)} = 0.414392$$

$$Num := \frac{B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}}{\sqrt{\left[B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}\right]^2}}$$

$$Den := \frac{2 \cdot C \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)}{\sqrt{\left[2 \cdot C \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)\right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}\right] \cdot \sqrt{C^2 \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)^2}}{C \cdot \sqrt{\left[B \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)}\right]^2} \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.14765$ $N_2 := 1.57619$ $N_3 := 1.09663$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

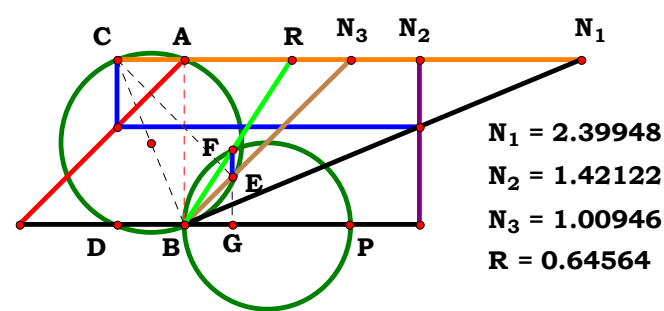
$$\frac{\sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)}{2 \cdot \left(C^2 + N_u^2\right) \cdot B} = 0.882908$$

$$\text{Num} := \frac{\sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[\sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)\right]^2}}$$

$$\text{Den} := \frac{2 \cdot \left(C^2 + N_u^2\right) \cdot B}{\sqrt{\left[2 \cdot \left(C^2 + N_u^2\right) \cdot B\right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)\right] \cdot \sqrt{B^2 \cdot \left(2 \cdot C^2 + 2 \cdot N_u^2\right)^2}}{B \cdot \left(2 \cdot C^2 + 2 \cdot N_u^2\right) \cdot \sqrt{\left[\sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.39948$ $N_2 := 1.42122$ $N_3 := 1.00946$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot [B \cdot C + N_u \cdot (A - B)]}{\sqrt{N_u \cdot (B \cdot C + A \cdot N_u - B \cdot N_u) \cdot [B \cdot C^2 - N_u^2 \cdot (A - 2 \cdot B) - B \cdot C \cdot N_u]}} = 0.645641$$

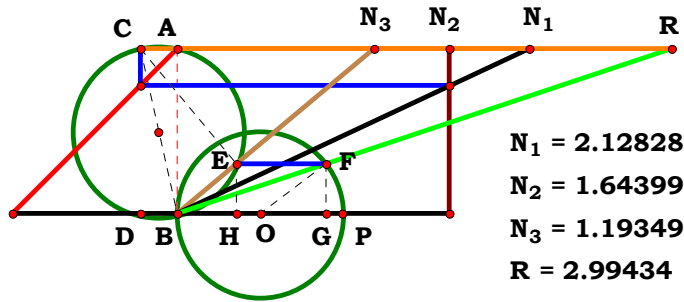
$$Den := \frac{\sqrt{N_u \cdot (B \cdot C + A \cdot N_u - B \cdot N_u) \cdot [B \cdot C^2 - N_u^2 \cdot (A - 2 \cdot B) - B \cdot C \cdot N_u]}}{\sqrt{\left[\sqrt{N_u \cdot (B \cdot C + A \cdot N_u - B \cdot N_u) \cdot [B \cdot C^2 - N_u^2 \cdot (A - 2 \cdot B) - B \cdot C \cdot N_u]} \right]^2}}$$

$$Num := \frac{N_u \cdot [B \cdot C + N_u \cdot (A - B)]}{\sqrt{\left[N_u \cdot [B \cdot C + N_u \cdot (A - B)] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1 \quad Den = 1 \quad L = 1$

$$L - \frac{N_u \cdot [B \cdot C + N_u \cdot (A - B)]}{\sqrt{N_u^2 \cdot [B \cdot C + N_u \cdot (A - B)]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.12828$ $N_2 := 1.64399$ $N_3 := 1.19349$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

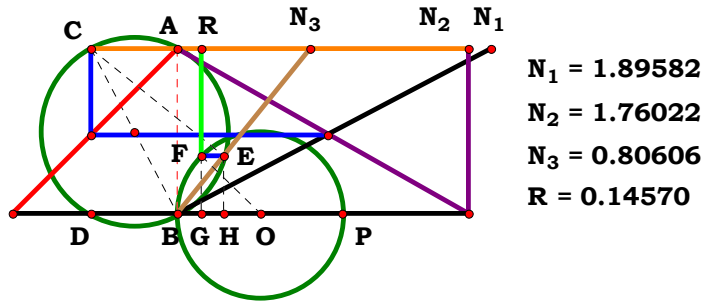
$$\frac{\sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)}{2 \cdot C \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)} = 2.994357$$

$$Num := \frac{\sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[\sqrt{\left(B \cdot N_u^2 - B \cdot C^2 - 2 \cdot A \cdot C \cdot N_u + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)\right]^2}}$$

$$Den := \frac{2 \cdot C \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)}{\sqrt{\left[2 \cdot C \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{-\left(B \cdot C^2 - B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)\right] \cdot \sqrt{C^2 \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)^2}}{C \cdot \sqrt{\left[\sqrt{-\left(B \cdot C^2 - B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot B \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u - 2 \cdot B \cdot C \cdot N_u\right)} + B \cdot \left(C^2 + N_u^2\right)\right]^2} \cdot \left(B \cdot C + A \cdot N_u - B \cdot N_u\right)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.89582$ $N_2 := 1.76022$ $N_3 := .80606$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

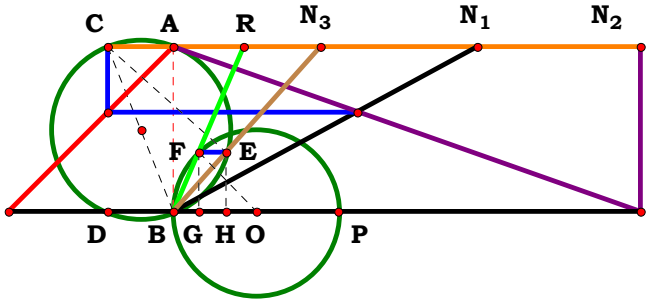
$$\frac{\left(C^2+N_u^2\right)\cdot\left(A+B\right)-\sqrt{\left(A\cdot N_u^2-B\cdot C^2-A\cdot C^2+B\cdot N_u^2+2\cdot B\cdot C\cdot N_u\right)\cdot\left(3\cdot A\cdot C^2+3\cdot B\cdot C^2+A\cdot N_u^2+B\cdot N_u^2-2\cdot B\cdot C\cdot N_u\right)}}{2\cdot\left(C^2+N_u^2\right)\cdot\left(A+B\right)}=0.145693$$

$$Num := \frac{\left(C^2+N_u^2\right)\cdot\left(A+B\right)-\sqrt{\left(A\cdot N_u^2-B\cdot C^2-A\cdot C^2+B\cdot N_u^2+2\cdot B\cdot C\cdot N_u\right)\cdot\left(3\cdot A\cdot C^2+3\cdot B\cdot C^2+A\cdot N_u^2+B\cdot N_u^2-2\cdot B\cdot C\cdot N_u\right)}}{\sqrt{\left[\left(C^2+N_u^2\right)\cdot\left(A+B\right)-\sqrt{\left(A\cdot N_u^2-B\cdot C^2-A\cdot C^2+B\cdot N_u^2+2\cdot B\cdot C\cdot N_u\right)\cdot\left(3\cdot A\cdot C^2+3\cdot B\cdot C^2+A\cdot N_u^2+B\cdot N_u^2-2\cdot B\cdot C\cdot N_u\right)}\right]^2}}$$

$$Den := \frac{2\cdot\left(C^2+N_u^2\right)\cdot\left(A+B\right)}{\sqrt{\left[2\cdot\left(C^2+N_u^2\right)\cdot\left(A+B\right)\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\left(C^2+N_u^2\right)\cdot\left(A+B\right)-\sqrt{\left(A\cdot N_u^2-B\cdot C^2-A\cdot C^2+B\cdot N_u^2+2\cdot B\cdot C\cdot N_u\right)\cdot\left(3\cdot A\cdot C^2+3\cdot B\cdot C^2+A\cdot N_u^2+B\cdot N_u^2-2\cdot B\cdot C\cdot N_u\right)}\right]\cdot\sqrt{\left(2\cdot C^2+2\cdot N_u^2\right)^2\cdot\left(A+B\right)^2}}{\left(2\cdot C^2+2\cdot N_u^2\right)\cdot\left(A+B\right)\cdot\sqrt{\left[\sqrt{\left(A\cdot N_u^2-B\cdot C^2-A\cdot C^2+B\cdot N_u^2+2\cdot B\cdot C\cdot N_u\right)\cdot\left(3\cdot A\cdot C^2+3\cdot B\cdot C^2+A\cdot N_u^2+B\cdot N_u^2-2\cdot B\cdot C\cdot N_u\right)}-\left(C^2+N_u^2\right)\cdot\left(A+B\right)\right]^2}}=0$$



$N_1 = 1.83771$
 $N_2 = 2.82566$
 $N_3 = 0.89323$
 $R = 0.42577$

Unit. $AB := 1$ Given. $N_1 := 1.83771$ $N_2 := 2.82566$ $N_3 := .89323$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

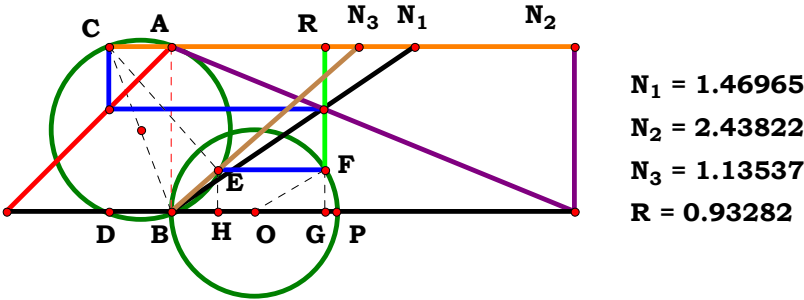
$$\frac{\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot B \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot B \cdot C \cdot N_u\right)}}{2 \cdot C \cdot\left(A \cdot C+B \cdot C-B \cdot N_u\right)}=0.425767$$

$$Num:=\frac{\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot B \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot B \cdot C \cdot N_u\right)}}{\sqrt{\left[\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot B \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot B \cdot C \cdot N_u\right)}\right]^2}}$$

$$Den:=\frac{2 \cdot C \cdot\left(A \cdot C+B \cdot C-B \cdot N_u\right)}{\sqrt{\left[2 \cdot C \cdot\left(A \cdot C+B \cdot C-B \cdot N_u\right)\right]^2}} \quad L:=\frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L-\frac{\left[\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot B \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot B \cdot C \cdot N_u\right)}\right] \cdot \sqrt{C^2 \cdot\left(A \cdot C+B \cdot C-B \cdot N_u\right)^2}}{C \cdot \sqrt{\left[\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot B \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot B \cdot C \cdot N_u\right)}\right]^2} \cdot\left(A \cdot C+B \cdot C-B \cdot N_u\right)}=0$$



Unit. $AB := 1$ Given. $N_1 := 1.46965$ $N_2 := 2.43822$ $N_3 := 1.13537$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

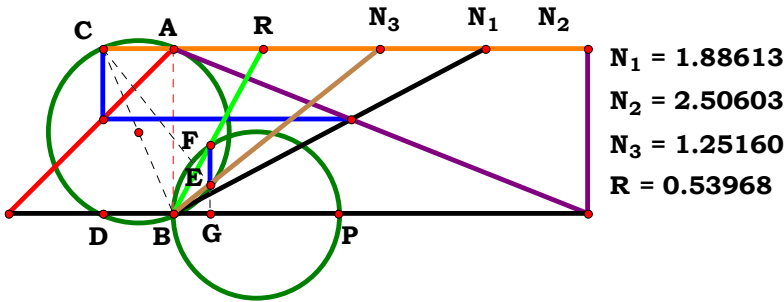
$$\frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}}{2 \cdot \left(C^2 + N_u^2\right) \cdot (A + B)} = 0.932823$$

$$\text{Num} := \frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}}{\sqrt{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot \left(C^2 + N_u^2\right) \cdot (A + B)}{\sqrt{\left[2 \cdot \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}\right] \cdot \sqrt{\left(2 \cdot C^2 + 2 \cdot N_u^2\right)^2 \cdot (A + B)^2}}{\left(2 \cdot C^2 + 2 \cdot N_u^2\right) \cdot (A + B) \cdot \sqrt{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.88613$ $N_2 := 2.50603$ $N_3 := 1.25160$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u)}{\sqrt{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u) \cdot (A \cdot C^2 + B \cdot C^2 + A \cdot N_u^2 + 2 \cdot B \cdot N_u^2 - A \cdot C \cdot N_u - B \cdot C \cdot N_u)}} = 0.539678$$

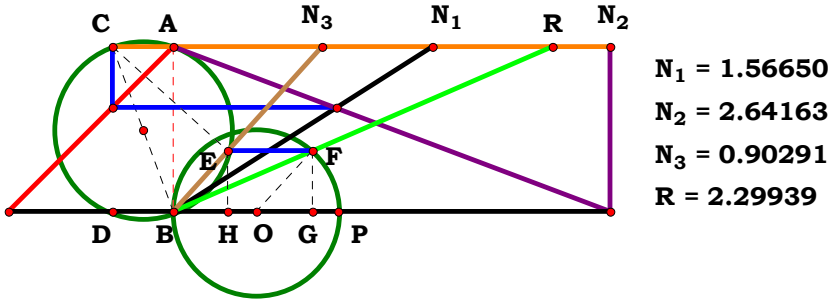
$$Num := \frac{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u)}{\sqrt{[N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u)]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u) \cdot (A \cdot C^2 + B \cdot C^2 + A \cdot N_u^2 + 2 \cdot B \cdot N_u^2 - A \cdot C \cdot N_u - B \cdot C \cdot N_u)}}{\sqrt{[\sqrt{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u) \cdot (A \cdot C^2 + B \cdot C^2 + A \cdot N_u^2 + 2 \cdot B \cdot N_u^2 - A \cdot C \cdot N_u - B \cdot C \cdot N_u)}]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1 \quad Den = 1 \quad L = 1$

$$L - \frac{N_u \cdot (A \cdot C + B \cdot C - B \cdot N_u)}{\sqrt{N_u^2 \cdot (A \cdot C + B \cdot C - B \cdot N_u)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.56650$ $N_2 := 2.64163$ $N_3 := .90291$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

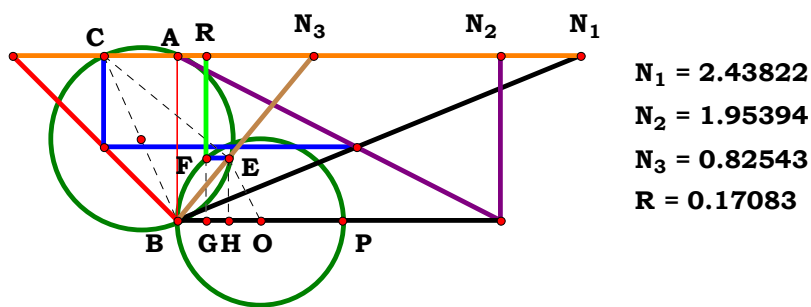
$$\frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)}{2 \cdot C \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)} = 2.29937$$

$$Num := \frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)}{\sqrt{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2}}$$

$$Den := \frac{2 \cdot C \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)}{\sqrt{\left[2 \cdot C \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)\right] \cdot \sqrt{C^2 \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)^2}}{C \cdot \sqrt{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot B \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot B \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2} \cdot \left(A \cdot C + B \cdot C - B \cdot N_u\right)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.43822$ $N_2 := 1.95394$ $N_3 := .82543$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

$N_1 = 2.43822$
 $N_2 = 1.95394$
 $N_3 = 0.82543$
 $R = 0.17083$

Descriptions.

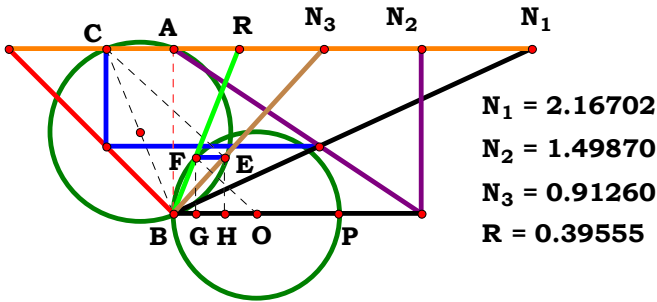
$$\frac{\left(C^2 + N_u^2\right) \cdot (A + B) - \sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)}}{2 \cdot \left(C^2 + N_u^2\right) \cdot (A + B)} = 0.170832$$

$$\text{Num} := \frac{\left(C^2 + N_u^2\right) \cdot (A + B) - \sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)}}{\sqrt{\left[\left(C^2 + N_u^2\right) \cdot (A + B) - \sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot \left(C^2 + N_u^2\right) \cdot (A + B)}{\sqrt{\left[2 \cdot \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[\left(C^2 + N_u^2\right) \cdot (A + B) - \sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)}\right] \cdot \sqrt{\left(2 \cdot C^2 + 2 \cdot N_u^2\right)^2 \cdot (A + B)^2}}{\left(2 \cdot C^2 + 2 \cdot N_u^2\right) \cdot (A + B) \cdot \sqrt{\left[\left(C^2 + N_u^2\right) \cdot (A + B) - \sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.16702$ $N_2 := 1.49870$ $N_3 := .91260$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

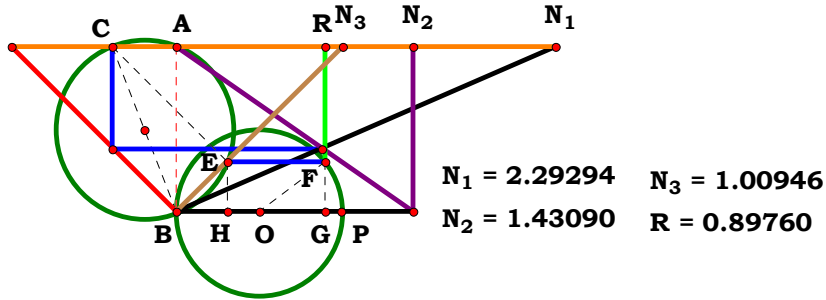
$$\frac{\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot A \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot A \cdot C \cdot N_u\right)}}{2 \cdot C \cdot\left(A \cdot C+B \cdot C-A \cdot N_u\right)}=0.395546$$

$$Num:=\frac{\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot A \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot A \cdot C \cdot N_u\right)}}{\sqrt{\left[\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot A \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot A \cdot C \cdot N_u\right)}\right]^2}}$$

$$Den:=\frac{2 \cdot C \cdot\left(A \cdot C+B \cdot C-A \cdot N_u\right)}{\sqrt{\left[2 \cdot C \cdot\left(A \cdot C+B \cdot C-A \cdot N_u\right)\right]^2}} \qquad L:=\frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L-\frac{\left[\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot A \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot A \cdot C \cdot N_u\right)}\right] \cdot \sqrt{C^2 \cdot\left(A \cdot C+B \cdot C-A \cdot N_u\right)^2}}{C \cdot \sqrt{\left[\left(C^2+N_u^2\right) \cdot (A+B)-\sqrt{\left(A \cdot N_u^2-B \cdot C^2-A \cdot C^2+B \cdot N_u^2+2 \cdot A \cdot C \cdot N_u\right) \cdot\left(3 \cdot A \cdot C^2+3 \cdot B \cdot C^2+A \cdot N_u^2+B \cdot N_u^2-2 \cdot A \cdot C \cdot N_u\right)}\right]^2} \cdot\left(A \cdot C+B \cdot C-A \cdot N_u\right)}=0$$



Unit. $AB := 1$ Given. $N_1 := 2.29294$ $N_2 := 1.43090$ $N_3 := 1.00946$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

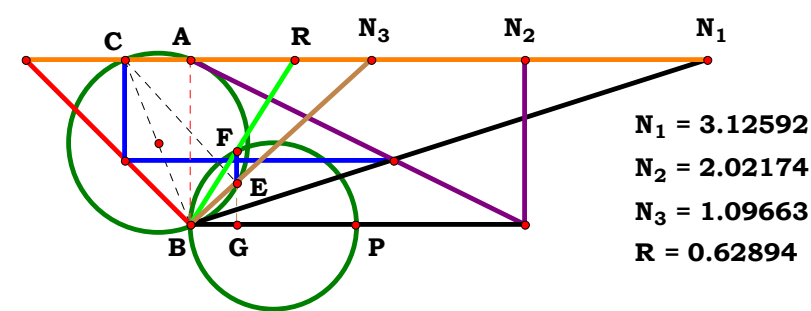
$$\frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}}{2 \cdot \left(C^2 + N_u^2\right) \cdot (A + B)} = 0.8976$$

$$\text{Num} := \frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}}{\sqrt{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}\right]^2}}$$

$$\text{Den} := \frac{2 \cdot \left(C^2 + N_u^2\right) \cdot (A + B)}{\sqrt{\left[2 \cdot \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}\right] \cdot \sqrt{\left(2 \cdot C^2 + 2 \cdot N_u^2\right)^2 \cdot (A + B)^2}}{\left(2 \cdot C^2 + 2 \cdot N_u^2\right) \cdot (A + B) \cdot \sqrt{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right) + \left(C^2 + N_u^2\right) \cdot (A + B)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.12592$ $N_2 := 2.02174$ $N_3 := 1.09663$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u)}{\sqrt{N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u) \cdot (A \cdot C^2 + B \cdot C^2 + 2 \cdot A \cdot N_u^2 + B \cdot N_u^2 - A \cdot C \cdot N_u - B \cdot C \cdot N_u)}} = 0.628937$$

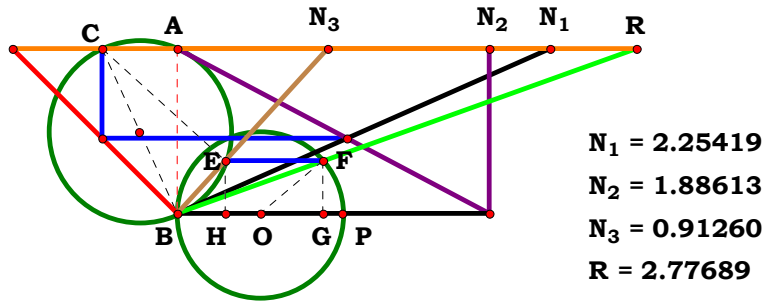
$$Num := \frac{N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u)}{\sqrt{[N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u)]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u) \cdot (A \cdot C^2 + B \cdot C^2 + 2 \cdot A \cdot N_u^2 + B \cdot N_u^2 - A \cdot C \cdot N_u - B \cdot C \cdot N_u)}}{\sqrt{[\sqrt{N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u) \cdot (A \cdot C^2 + B \cdot C^2 + 2 \cdot A \cdot N_u^2 + B \cdot N_u^2 - A \cdot C \cdot N_u - B \cdot C \cdot N_u)}]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1 \quad Den = 1 \quad L = 1$

$$L - \frac{N_u \cdot (A \cdot C + B \cdot C - A \cdot N_u)}{\sqrt{N_u^2 \cdot (A \cdot C + B \cdot C - A \cdot N_u)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.25419$ $N_2 := 1.88613$ $N_3 := .91260$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

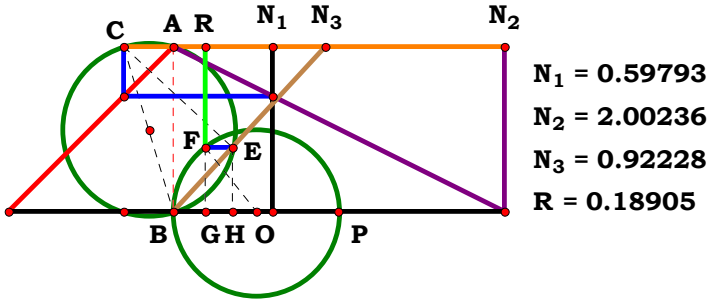
$$\frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)}{2 \cdot C \cdot \left(A \cdot C + B \cdot C - A \cdot N_u\right)} = 2.776892$$

$$\text{Num} := \frac{\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)}{\sqrt{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2}}$$

$$\text{Den} := \frac{2 \cdot C \cdot \left(A \cdot C + B \cdot C - A \cdot N_u\right)}{\sqrt{\left[2 \cdot C \cdot \left(A \cdot C + B \cdot C - A \cdot N_u\right)\right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)\right] \cdot \sqrt{C^2 \cdot \left(A \cdot C + B \cdot C - A \cdot N_u\right)^2}}{C \cdot \sqrt{\left[\sqrt{\left(A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + B \cdot N_u^2 + 2 \cdot A \cdot C \cdot N_u\right) \cdot \left(3 \cdot A \cdot C^2 + 3 \cdot B \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - 2 \cdot A \cdot C \cdot N_u\right)} + \left(C^2 + N_u^2\right) \cdot (A + B)\right]^2} \cdot \left(A \cdot C + B \cdot C - A \cdot N_u\right)} = 0$$



Unit. $AB := 1$ Given. $N_1 := .59793$ $N_2 := 2.00236$ $N_3 := .92228$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

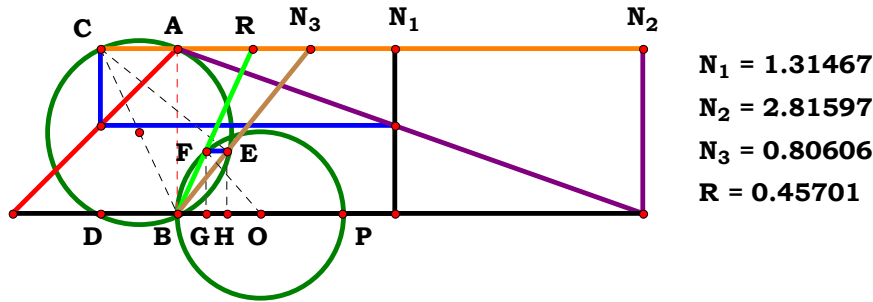
$$\frac{A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(2 \cdot B \cdot C \cdot N_u - 3 \cdot A \cdot C^2 - A \cdot N_u^2\right) \cdot \left(A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u - A \cdot N_u^2\right)}}{2 \cdot \left(C^2 + N_u^2\right) \cdot A} = 0.189047$$

$$Num := \frac{A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(2 \cdot B \cdot C \cdot N_u - 3 \cdot A \cdot C^2 - A \cdot N_u^2\right) \cdot \left(A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u - A \cdot N_u^2\right)}}{\sqrt{\left[A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(2 \cdot B \cdot C \cdot N_u - 3 \cdot A \cdot C^2 - A \cdot N_u^2\right) \cdot \left(A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u - A \cdot N_u^2\right)}\right]^2}}$$

$$Den := \frac{2 \cdot \left(C^2 + N_u^2\right) \cdot A}{\sqrt{\left[2 \cdot \left(C^2 + N_u^2\right) \cdot A\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(-A \cdot C^2 + 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)}\right] \cdot \sqrt{A^2 \cdot \left(2 \cdot C^2 + 2 \cdot N_u^2\right)^2}}{A \cdot \left(2 \cdot C^2 + 2 \cdot N_u^2\right) \cdot \sqrt{\left[A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(-A \cdot C^2 + 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.31467$ $N_2 := 2.81597$ $N_3 := .80606$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

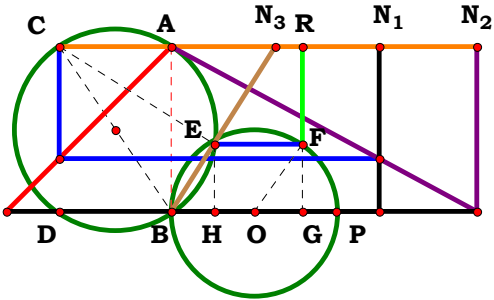
$$\frac{A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(2 \cdot B \cdot C \cdot N_u - 3 \cdot A \cdot C^2 - A \cdot N_u^2\right) \cdot \left(A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u - A \cdot N_u^2\right)}}{2 \cdot C \cdot \left(A \cdot C - B \cdot N_u\right)} = 0.457008$$

$$Num := \frac{A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(2 \cdot B \cdot C \cdot N_u - 3 \cdot A \cdot C^2 - A \cdot N_u^2\right) \cdot \left(A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u - A \cdot N_u^2\right)}}{\sqrt{\left[A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(2 \cdot B \cdot C \cdot N_u - 3 \cdot A \cdot C^2 - A \cdot N_u^2\right) \cdot \left(A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u - A \cdot N_u^2\right)}\right]^2}}$$

$$Den := \frac{2 \cdot C \cdot \left(A \cdot C - B \cdot N_u\right)}{\sqrt{\left[2 \cdot C \cdot \left(A \cdot C - B \cdot N_u\right)\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(-A \cdot C^2 + 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)}\right] \cdot \sqrt{C^2 \cdot \left(A \cdot C - B \cdot N_u\right)^2}}{C \cdot \sqrt{\left[A \cdot \left(C^2 + N_u^2\right) - \sqrt{\left(-A \cdot C^2 + 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)}\right]^2} \cdot \left(A \cdot C - B \cdot N_u\right)} = 0$$



N₁ = 1.25656
 N₂ = 1.84739
 N₃ = 0.63171
 R = 0.78952

Unit. AB := 1 Given. N₁ := 1.25656 N₂ := 1.84739 N₃ := .63171

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

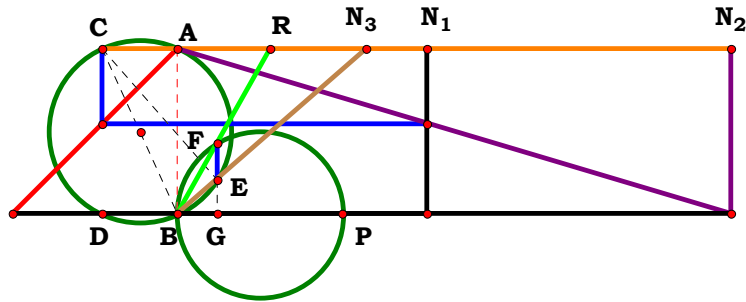
$$\frac{\sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)} + A \cdot \left(C^2 + N_u^2\right)}{2 \cdot \left(C^2 + N_u^2\right) \cdot A} = 0.789522$$

$$Num := \frac{\sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)} + A \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[\sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)} + A \cdot \left(C^2 + N_u^2\right)\right]^2}}$$

$$Den := \frac{2 \cdot \left(C^2 + N_u^2\right) \cdot A}{\sqrt{\left[2 \cdot \left(C^2 + N_u^2\right) \cdot A\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[A \cdot \left(C^2 + N_u^2\right) + \sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)}\right] \cdot \sqrt{A^2 \cdot \left(2 \cdot C^2 + 2 \cdot N_u^2\right)^2}}{A \cdot \sqrt{\left[A \cdot \left(C^2 + N_u^2\right) + \sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)}\right]^2 \cdot \left(2 \cdot C^2 + 2 \cdot N_u^2\right)}} = 0$$



$N_1 = 1.50839$
 $N_2 = 3.34869$
 $N_3 = 1.14506$
 $R = 0.56180$

Unit. $AB := 1$ Given. $N_1 := 1.50839$ $N_2 := 3.34869$ $N_3 := 1.14506$

$N_u := 3$ $A := \frac{N_u}{N_1}$ $B := \frac{N_u}{N_2}$ $C := \frac{N_u}{N_3}$

Descriptions.

$$\frac{N_u \cdot (A \cdot C - B \cdot N_u)}{\sqrt{N_u \cdot (A \cdot C - B \cdot N_u) \cdot (A \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - A \cdot C \cdot N_u)}} = 0.561804$$

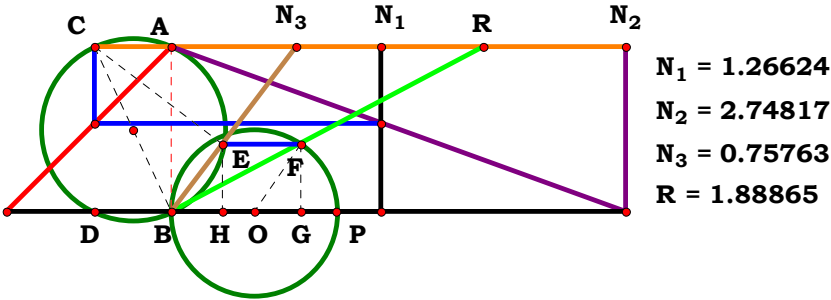
$$Num := \frac{N_u \cdot (A \cdot C - B \cdot N_u)}{\sqrt{[N_u \cdot (A \cdot C - B \cdot N_u)]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A \cdot C - B \cdot N_u) \cdot (A \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - A \cdot C \cdot N_u)}}{\sqrt{[\sqrt{N_u \cdot (A \cdot C - B \cdot N_u) \cdot (A \cdot C^2 + A \cdot N_u^2 + B \cdot N_u^2 - A \cdot C \cdot N_u)}]^2}}$$

$$L := \frac{Num}{Den}$$

$Num = 1 \quad Den = 1 \quad L = 1$

$$L - \frac{N_u \cdot (A \cdot C - B \cdot N_u)}{\sqrt{N_u^2 \cdot (A \cdot C - B \cdot N_u)^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.26624$ $N_2 := 2.74817$ $N_3 := .75763$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

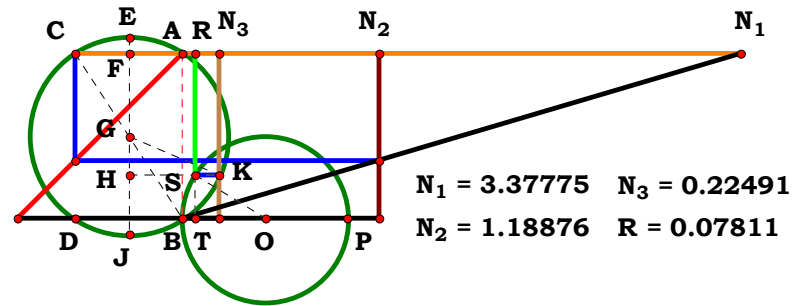
$$\frac{\sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)} + A \cdot \left(C^2 + N_u^2\right)}{2 \cdot C \cdot \left(A \cdot C - B \cdot N_u\right)} = 1.888658$$

$$Num := \frac{\sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)} + A \cdot \left(C^2 + N_u^2\right)}{\sqrt{\left[\sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)} + A \cdot \left(C^2 + N_u^2\right)\right]^2}}$$

$$Den := \frac{2 \cdot C \cdot \left(A \cdot C - B \cdot N_u\right)}{\sqrt{\left[2 \cdot C \cdot \left(A \cdot C - B \cdot N_u\right)\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\sqrt{C^2 \cdot \left(A \cdot C - B \cdot N_u\right)^2 \cdot \left[A \cdot \left(C^2 + N_u^2\right) + \sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)}\right]}}{C \cdot \sqrt{\left[A \cdot \left(C^2 + N_u^2\right) + \sqrt{\left(2 \cdot B \cdot C \cdot N_u - A \cdot C^2 + A \cdot N_u^2\right) \cdot \left(3 \cdot A \cdot C^2 - 2 \cdot B \cdot C \cdot N_u + A \cdot N_u^2\right)}\right]^2} \cdot \left(A \cdot C - B \cdot N_u\right)} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.37775$ $N_2 := 1.18876$ $N_3 := .22491$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

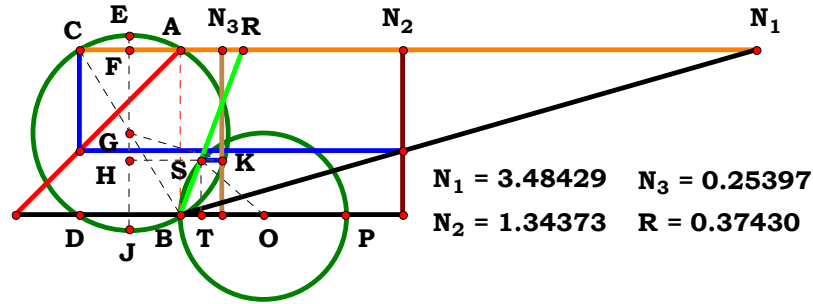
$$\frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{\sqrt{N_u}} \cdot \left[2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[B \cdot \left(C^2 - 4 \cdot N_u^2 \right) + 4 \cdot C \cdot N_u \cdot (A - B) \right] \right]}{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C} = 0.078116$$

$$\text{Num} := \frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{\sqrt{N_u}} \cdot \left[2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[B \cdot \left(C^2 - 4 \cdot N_u^2 \right) + 4 \cdot C \cdot N_u \cdot (A - B) \right] \right]}{\sqrt{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{\sqrt{N_u}} \cdot \left[2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[B \cdot \left(C^2 - 4 \cdot N_u^2 \right) + 4 \cdot C \cdot N_u \cdot (A - B) \right] \right] \right]^2}}$$

$$\text{Den} := \frac{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C}{\sqrt{\left[2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{\sqrt{N_u}} \cdot \left[2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[B \cdot \left(C^2 - 4 \cdot N_u^2 \right) + 4 \cdot C \cdot N_u \cdot (A - B) \right] \right] \right] \cdot \sqrt{C^2 \cdot N_u \cdot (A \cdot B)^{\frac{3}{2}}}}{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot \sqrt{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{\sqrt{N_u}} \cdot \left[2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - \sqrt{A \cdot B} \cdot \sqrt{N_u} \cdot \left[B \cdot \left(C^2 - 4 \cdot N_u^2 \right) + 4 \cdot C \cdot N_u \cdot (A - B) \right] \right] \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.48429$ $N_2 := 1.34373$ $N_3 := .25397$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \right]}{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \right]} = 0.374325$$

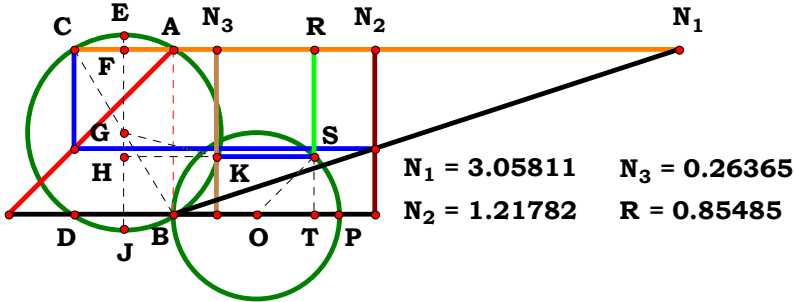
$$\text{Num} := \frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \right]}{\sqrt{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \right] \right]^2}}$$

$$\text{Den} := \frac{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \right]}{\sqrt{\left[(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \right] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \dots \right] - C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right] \cdot \sqrt{\left[\sqrt{A} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) - C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \right]^2 \cdot \sqrt{A \cdot B}}}{\left[\sqrt{A} \cdot \sqrt{N_u} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) - C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \right] \cdot (A \cdot B)^{\frac{1}{4}} \cdot \sqrt{\left[\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot (B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u) \dots \right] - C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.05811$ $N_2 := 1.21782$ $N_3 := .26365$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

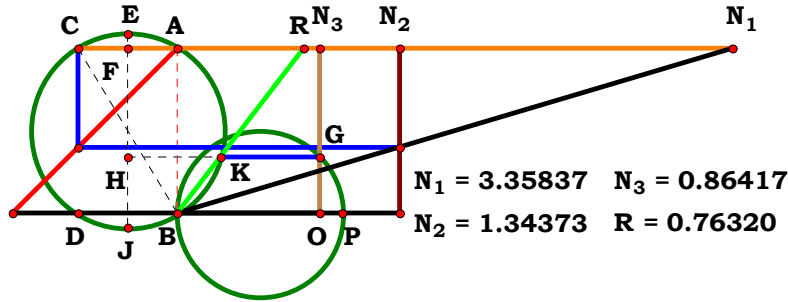
$$\frac{\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right)} \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C} = 0.854855$$

$$\text{Num} := \frac{\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right)} \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}{\sqrt{\left[\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right)} \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2}}$$

$$\text{Den} := \frac{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C}{\sqrt{\left[2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C \right]^2}} \qquad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \qquad \text{Den} = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right)} \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right] \cdot \sqrt{C^2 \cdot N_u \cdot (A \cdot B)^{\frac{3}{2}}}}{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot \sqrt{\left[\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right)} \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.35837$ $N_2 := 1.34373$ $N_3 := .86417$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

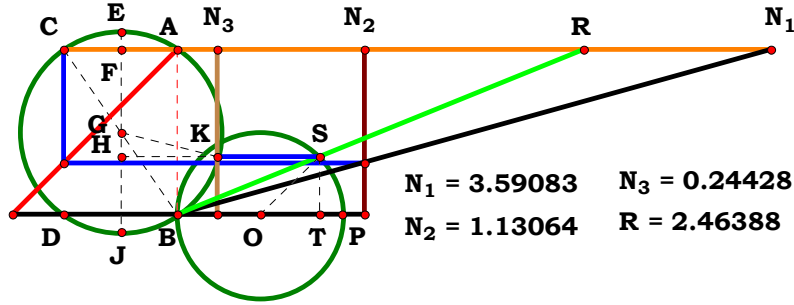
$$\frac{C \cdot (A - B) + \sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}}}{2 \cdot B \cdot \sqrt{N_u \cdot (C - N_u)}} = 0.763199$$

$$Num := \frac{C \cdot (A - B) + \sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}}}{\sqrt{\left[C \cdot (A - B) + \sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}}\right]^2}}$$

$$Den := \frac{2 \cdot B \cdot \sqrt{N_u \cdot (C - N_u)}}{\sqrt{\left[2 \cdot B \cdot \sqrt{N_u \cdot (C - N_u)}\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}} + C \cdot (A - B)\right] \cdot \sqrt{B^2 \cdot N_u \cdot (C - N_u)}}{B \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}} + C \cdot (A - B)\right]^2 \cdot \sqrt{N_u \cdot (C - N_u)}}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 3.59083$ $N_2 := 1.13064$ $N_3 := .24428$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \right]} = 2.46388$$

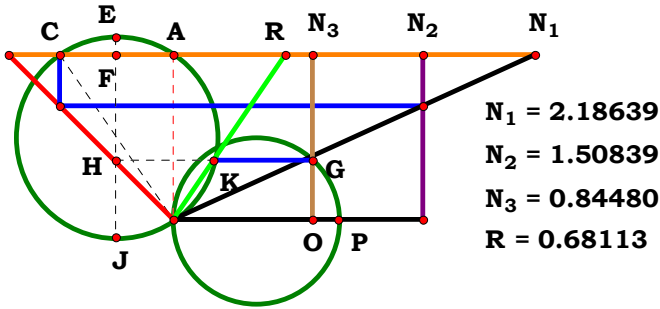
$$Num := \frac{\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}{\sqrt{\left[\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) - 2 \cdot \sqrt{A \cdot B \cdot C} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2}}$$

$$Den := \frac{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \right]}{\sqrt{\left[(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \dots \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right] \cdot \sqrt{\left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \right]^2 \cdot \sqrt{A \cdot B}}}{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{A} \cdot \sqrt{N_u} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \right] \cdot \sqrt{\left[\sqrt{A} \cdot \sqrt{-\sqrt{N_u}} \cdot \left[\sqrt{N_u} \cdot \sqrt{A \cdot B} \cdot \left(B \cdot C^2 - 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u - 4 \cdot B \cdot C \cdot N_u \right) \dots \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.18639$ $N_2 := 1.50839$ $N_3 := .84480$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

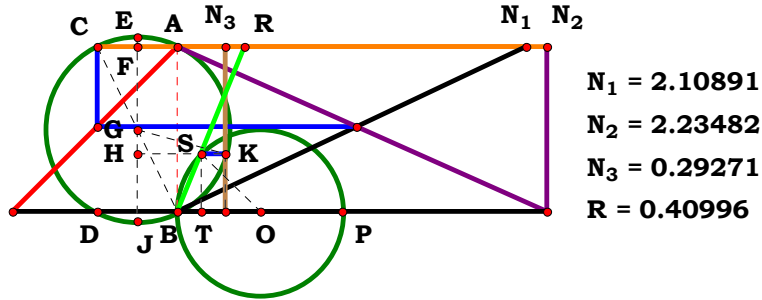
$$\frac{\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - A \cdot C}}{2 \cdot B \cdot \sqrt{N_u \cdot (C - N_u)}} = 0.681133$$

$$Num := \frac{\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - A \cdot C}}{\sqrt{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - A \cdot C}\right]^2}}$$

$$Den := \frac{2 \cdot B \cdot \sqrt{N_u \cdot (C - N_u)}}{\sqrt{\left[2 \cdot B \cdot \sqrt{N_u \cdot (C - N_u)}\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - A \cdot C}\right] \cdot \sqrt{B^2 \cdot N_u \cdot (C - N_u)}}{B \cdot \sqrt{N_u \cdot (C - N_u)} \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + 4 \cdot B^2 \cdot N_u^2 - 4 \cdot B^2 \cdot C \cdot N_u + 4 \cdot B^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - A \cdot C}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.10891$ $N_2 := 2.23482$ $N_3 := .29271$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

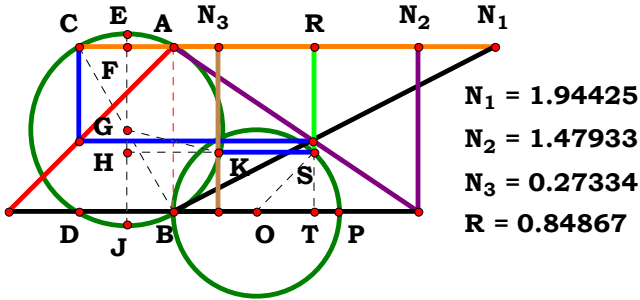
$$\frac{C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)} - A \cdot C^2 \cdot N_u - B \cdot C \cdot N_u \cdot (C - 4 \cdot N_u)}}{C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)}} = 0.409965$$

$$\text{Num} := \frac{C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)} - A \cdot C^2 \cdot N_u - B \cdot C \cdot N_u \cdot (C - 4 \cdot N_u)}}{\sqrt{\left[C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)} - A \cdot C^2 \cdot N_u - B \cdot C \cdot N_u \cdot (C - 4 \cdot N_u)} \right]^2}}$$

$$\text{Den} := \frac{C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)}}{\sqrt{\left[C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u)} \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 \dots \right) + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u}} \dots - C \cdot \sqrt{N_u \cdot (A + B)}} + -A \cdot C^2 \cdot N_u - B \cdot C \cdot N_u \cdot (C - 4 \cdot N_u) \right] \cdot \sqrt{\left[\sqrt{-N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 \dots \right) + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u}} - C \cdot \sqrt{N_u \cdot (A + B)} \right]^2}}{\sqrt{\left[\sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 \dots \right) + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u}} \dots - C \cdot \sqrt{N_u \cdot (A + B)}} + -A \cdot C^2 \cdot N_u - B \cdot C \cdot N_u \cdot (C - 4 \cdot N_u) \right]^2 \cdot \left[\sqrt{-N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 \dots \right) + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u}} - C \cdot \sqrt{N_u \cdot (A + B)} \right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.94425$ $N_2 := 1.47933$ $N_3 := .27334$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

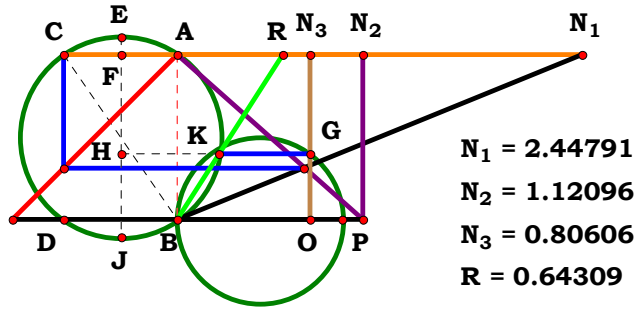
$$\frac{\sqrt{N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u\right)} + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u\right)} + C \cdot \sqrt{N_u \cdot (A + B)}}{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C} = 0.848658$$

$$Num := \frac{\sqrt{N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u\right)} + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u\right)} + C \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{\left[\sqrt{N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u\right)} + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot B \cdot C \cdot N_u\right)} + C \cdot \sqrt{N_u \cdot (A + B)}\right]^2}}$$

$$Den := \frac{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C}{\sqrt{\left[2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u\right)} + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u\right)} + C \cdot \sqrt{N_u \cdot (A + B)}\right] \cdot \sqrt{C^2 \cdot N_u \cdot (A + B)}}{C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{\left[\sqrt{N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u\right)} + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot \left(4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot B \cdot C \cdot N_u\right)} + C \cdot \sqrt{N_u \cdot (A + B)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.44791$ $N_2 := 1.12096$ $N_3 := .80606$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

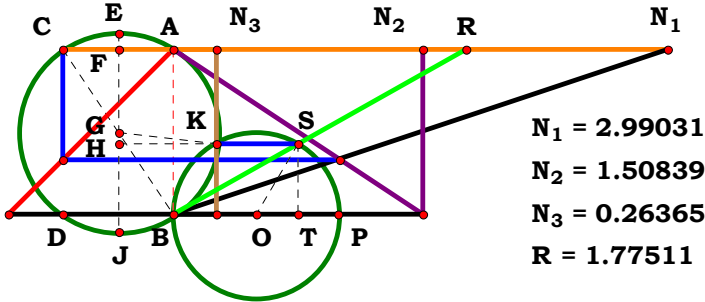
$$\frac{\sqrt{B^2 \cdot (C - 2 \cdot N_u)^2 - 4 \cdot A^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2} \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - B \cdot C}}{2 \cdot (A + B) \cdot \sqrt{N_u \cdot (C - N_u)}} = 0.643092$$

$$Num := \frac{\sqrt{B^2 \cdot (C - 2 \cdot N_u)^2 - 4 \cdot A^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2} \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - B \cdot C}}{\sqrt{\left[\sqrt{B^2 \cdot (C - 2 \cdot N_u)^2 - 4 \cdot A^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2} \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - B \cdot C} \right]^2}}$$

$$Den := \frac{2 \cdot (A + B) \cdot \sqrt{N_u \cdot (C - N_u)}}{\sqrt{\left[2 \cdot (A + B) \cdot \sqrt{N_u \cdot (C - N_u)} \right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{B^2 \cdot (C - 2 \cdot N_u)^2 - 4 \cdot A^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2} \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - B \cdot C} \right] \cdot \sqrt{N_u \cdot (2 \cdot A + 2 \cdot B)^2 \cdot (C - N_u)}}{\sqrt{\left[\sqrt{B^2 \cdot (C - 2 \cdot N_u)^2 - 4 \cdot A^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2} \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - B \cdot C} \right]^2} \cdot (2 \cdot A + 2 \cdot B) \cdot \sqrt{N_u \cdot (C - N_u)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 2.99031$ $N_2 := 1.50829$ $N_3 := .26365$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

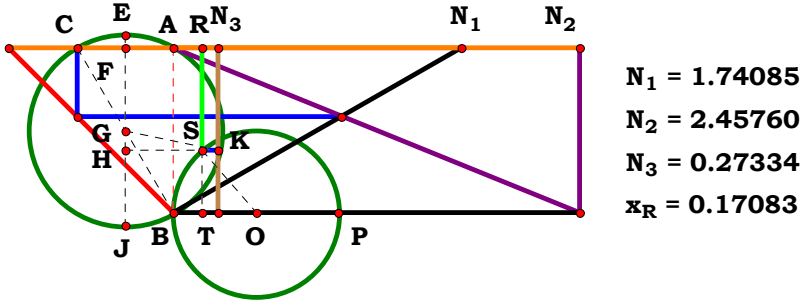
$$\frac{\sqrt{N_u \cdot (A + B)} + \sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A + B - 4 \cdot B \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}} - N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot [B + N_3 \cdot (A + B)]}{\sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A + B - 4 \cdot B \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}} = 1.77501$$

$$Num := \frac{\sqrt{N_u \cdot (A + B)} + \sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A + B - 4 \cdot B \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}} - N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot [B + N_3 \cdot (A + B)]}{\sqrt{\left[\sqrt{N_u \cdot (A + B)} + \sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A + B - 4 \cdot B \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}} - N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot [B + N_3 \cdot (A + B)]\right]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A + B - 4 \cdot B \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}}{\sqrt{\left[\sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A + B - 4 \cdot B \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}\right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{\frac{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}}{+ \, -N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot [B + N_3 \cdot (A + B)]}} \dots + \sqrt{N_u \cdot (A + B)}\right] \cdot \sqrt{\left[\sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A + B - 4 \cdot B \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}\right]^2}}{\sqrt{\left[\sqrt{\frac{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}}{+ \, -N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot [B + N_3 \cdot (A + B)]}} \dots + \sqrt{N_u \cdot (A + B)}\right]^2} \cdot \left[\sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A + B - 4 \cdot B \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}\right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.74085$ $N_2 := 2.45760$ $N_3 := .27334$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

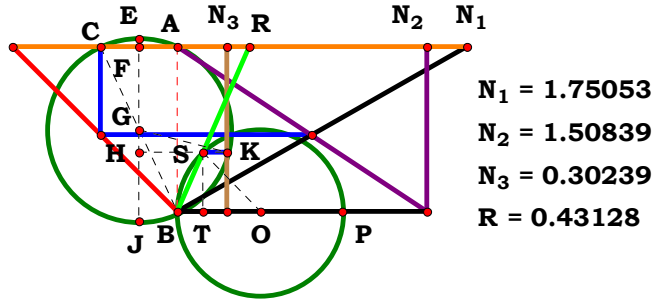
$$\frac{C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u)} - C \cdot N_u \cdot (A \cdot C + B \cdot C - 4 \cdot A \cdot N_u)}}{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C} = 0.170846$$

$$Num := \frac{C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u)} - C \cdot N_u \cdot (A \cdot C + B \cdot C - 4 \cdot A \cdot N_u)}}{\sqrt{\left[C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u)} - C \cdot N_u \cdot (A \cdot C + B \cdot C - 4 \cdot A \cdot N_u)}\right]^2}}$$

$$Den := \frac{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C}{\sqrt{\left[2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u)} - C \cdot N_u \cdot (A \cdot C + B \cdot C - 4 \cdot A \cdot N_u)}\right] \cdot \sqrt{C^2 \cdot N_u \cdot (A + B)}}{C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{\left[C \cdot \sqrt{N_u \cdot (A + B)} - \sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u)} - C \cdot N_u \cdot (A \cdot C + B \cdot C - 4 \cdot A \cdot N_u)}\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 1.50839$ $N_3 := .30239$

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

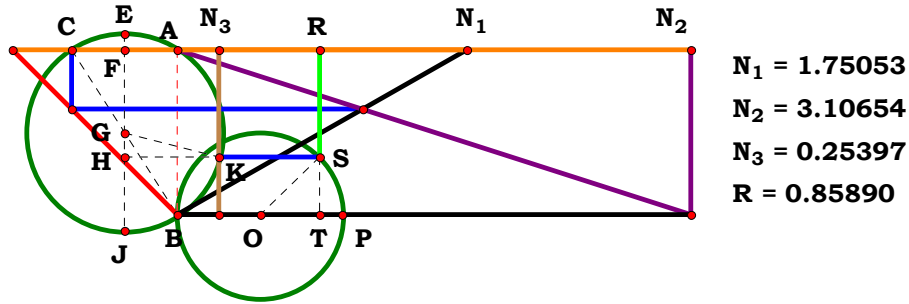
$$\frac{\sqrt{N_u \cdot (A + B)} - \sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A + B - 4 \cdot A \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}} - N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot (A + A \cdot N_3 + B \cdot N_3)}{\sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A + B - 4 \cdot A \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}} = 0.431244$$

$$Num := \frac{\sqrt{N_u \cdot (A + B)} - \sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A + B - 4 \cdot A \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}} - N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot (A + A \cdot N_3 + B \cdot N_3)}{\sqrt{\left[\sqrt{N_u \cdot (A + B)} - \sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A + B - 4 \cdot A \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}} - N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot (A + A \cdot N_3 + B \cdot N_3)\right]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A + B - 4 \cdot A \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}}{\sqrt{\left[\sqrt{N_u \cdot (A + B)} - \sqrt{N_u \cdot (A + B - 4 \cdot A \cdot N_3 - 4 \cdot A \cdot N_3^2 - 4 \cdot B \cdot N_3^2)}\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}} \dots - \sqrt{N_u \cdot (A + B)}\right] \cdot \sqrt{\left[\sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}} - \sqrt{N_u \cdot (A + B)}\right]^2 + -N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot (A + A \cdot N_3 + B \cdot N_3)}}{\left[\sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}} - \sqrt{N_u \cdot (A + B)}\right] \cdot \sqrt{\left[\sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}} \dots - \sqrt{N_u \cdot (A + B)}\right]^2 + -N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot (A + A \cdot N_3 + B \cdot N_3)}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.75053$ $N_2 := 3.10654$ $N_3 := .25397$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

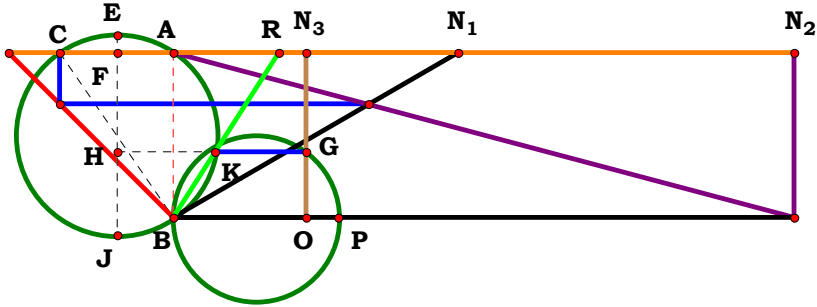
$$\frac{\sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u)} - A \cdot C \cdot N_u \cdot (C - 4 \cdot N_u) - B \cdot C^2 \cdot N_u + C \cdot \sqrt{N_u \cdot (A + B)}}{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C} = 0.858888$$

$$Num := \frac{\sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u)} - A \cdot C \cdot N_u \cdot (C - 4 \cdot N_u) - B \cdot C^2 \cdot N_u + C \cdot \sqrt{N_u \cdot (A + B)}}{\sqrt{\left[\sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{N_u \cdot (A \cdot C^2 + B \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot B \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u)} - A \cdot C \cdot N_u \cdot (C - 4 \cdot N_u) - B \cdot C^2 \cdot N_u + C \cdot \sqrt{N_u \cdot (A + B)}}\right]^2}}$$

$$Den := \frac{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C}{\sqrt{\left[2 \cdot \sqrt{N_u \cdot (A + B)} \cdot C\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u)} - B \cdot C^2 \cdot N_u - A \cdot C \cdot N_u \cdot (C - 4 \cdot N_u) + C \cdot \sqrt{N_u \cdot (A + B)}}\right] \cdot \sqrt{C^2 \cdot N_u \cdot (A + B)}}{C \cdot \sqrt{\left[\sqrt{4 \cdot A \cdot N_u^3 + 4 \cdot B \cdot N_u^3 + 2 \cdot C \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_u^2 - B \cdot C^2 - A \cdot C^2 + 4 \cdot B \cdot N_u^2 + 4 \cdot A \cdot C \cdot N_u)} - B \cdot C^2 \cdot N_u - A \cdot C \cdot N_u \cdot (C - 4 \cdot N_u) + C \cdot \sqrt{N_u \cdot (A + B)}}\right]^2} \cdot \sqrt{N_u \cdot (A + B)}} = 0$$



$N_1 = 1.72148$
 $N_2 = 3.75549$
 $N_3 = 0.80606$
 $R = 0.64320$

Unit. $AB := 1$ Given. $N_1 := 1.72148$ $N_2 := 3.75549$ $N_3 := .80606$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

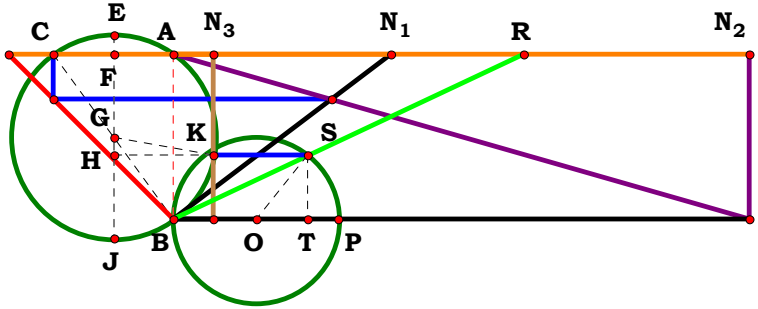
$$\frac{\sqrt{4 \cdot A^2 \cdot N_u^2 + A^2 \cdot C \cdot (C - 4 \cdot N_u) - 4 \cdot B^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2 \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - A \cdot C}}}{2 \cdot (A + B) \cdot \sqrt{N_u \cdot (C - N_u)}} = 0.643209$$

$$Num := \frac{\sqrt{4 \cdot A^2 \cdot N_u^2 + A^2 \cdot C \cdot (C - 4 \cdot N_u) - 4 \cdot B^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2 \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - A \cdot C}}}{\sqrt{\left[\sqrt{4 \cdot A^2 \cdot N_u^2 + A^2 \cdot C \cdot (C - 4 \cdot N_u) - 4 \cdot B^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2 \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - A \cdot C}}\right]^2}}$$

$$Den := \frac{2 \cdot (A + B) \cdot \sqrt{N_u \cdot (C - N_u)}}{\sqrt{\left[2 \cdot (A + B) \cdot \sqrt{N_u \cdot (C - N_u)}\right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{4 \cdot A^2 \cdot N_u^2 + A^2 \cdot C \cdot (C - 4 \cdot N_u) - 4 \cdot B^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2 \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - A \cdot C}}\right] \cdot \sqrt{N_u \cdot (2 \cdot A + 2 \cdot B)^2 \cdot (C - N_u)}}{(2 \cdot A + 2 \cdot B) \cdot \sqrt{N_u \cdot (C - N_u)} \cdot \sqrt{\left[\sqrt{4 \cdot A^2 \cdot N_u^2 + A^2 \cdot C \cdot (C - 4 \cdot N_u) - 4 \cdot B^2 \cdot N_u \cdot (C - N_u) + 4 \cdot C \cdot (A + B)^2 \cdot \sqrt{C \cdot N_u - N_u^2 - 8 \cdot A \cdot B \cdot N_u \cdot (C - N_u) - A \cdot C}}\right]^2}} = 0$$



N₁ = 1.31467
 N₂ = 3.48429
 N₃ = 0.24428
 R = 2.11761

Unit. AB := 1 Given. N₁ := 1.31467 N₂ := 3.48429 N₃ := .24428

$$N_u := 3 \qquad A := \frac{N_u}{N_1} \qquad B := \frac{N_u}{N_2} \qquad C := \frac{N_u}{N_3}$$

Descriptions.

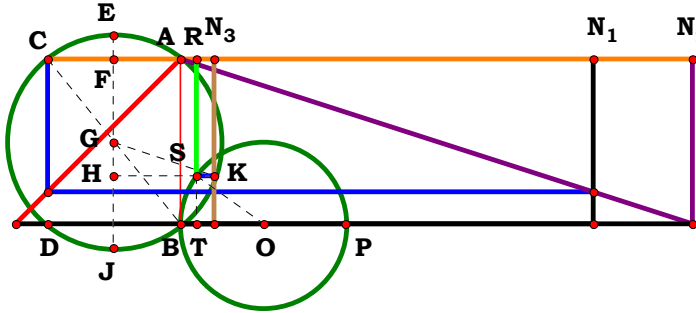
$$\frac{\sqrt{N_u \cdot (A + B)} + \sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)} - N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot (A + A \cdot N_3 + B \cdot N_3)}}{\sqrt{N_u \cdot (A + B)} - \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}} = 2.117603$$

$$Num := \frac{\sqrt{N_u \cdot (A + B)} + \sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)} - N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot (A + A \cdot N_3 + B \cdot N_3)}}{\sqrt{\left[\sqrt{N_u \cdot (A + B)} + \sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)} - N_u \cdot (A + B) + 4 \cdot N_3 \cdot N_u \cdot (A + A \cdot N_3 + B \cdot N_3)}\right]^2}}$$

$$Den := \frac{\sqrt{N_u \cdot (A + B)} - \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}}{\sqrt{\left[\sqrt{N_u \cdot (A + B)} - \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}\right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}} \dots + \sqrt{N_u \cdot (A + B)}\right] \cdot \sqrt{\left[\sqrt{N_u \cdot (A + B)} - \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}\right]^2}}{\left[\sqrt{N_u \cdot (A + B)} - \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}\right] \cdot \sqrt{\left[\sqrt{2 \cdot \sqrt{N_u \cdot (A + B)} \cdot \sqrt{-N_u \cdot (4 \cdot A \cdot N_3 - B - A + 4 \cdot A \cdot N_3^2 + 4 \cdot B \cdot N_3^2)}} \dots + \sqrt{N_u \cdot (A + B)}\right]^2}} = 0$$



$N_1 = 2.49634$
 $N_2 = 3.09686$
 $N_3 = 0.20554$
 $R = 0.09621$

Unit. $AB := 1$ Given. $N_1 := 2.49634$ $N_2 := 3.09686$ $N_3 := .20554$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

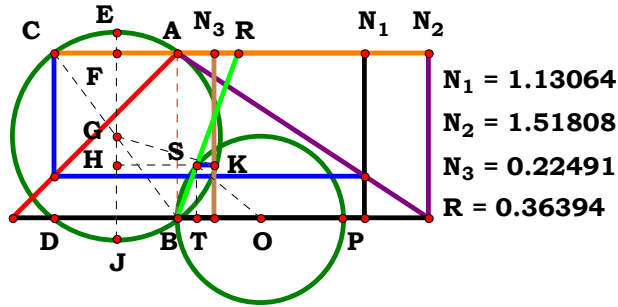
$$\frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot \left(4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2 \right)} \right]}}{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C} = 0.096218$$

$$Num := \frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot \left(4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2 \right)} \right]}}{\sqrt{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot \left(4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2 \right)} \right]} \right]^2}}$$

$$Den := \frac{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C}{\sqrt{\left[2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C \right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot \left(4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2 \right)} \right]} \right] \cdot \sqrt{C^2 \cdot N_u \cdot (A \cdot B)^{\frac{3}{2}}}}{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot \sqrt{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot \left(4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2 \right)} \right]} \right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.13064$ $N_2 := 1.51808$ $N_3 := .22491$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

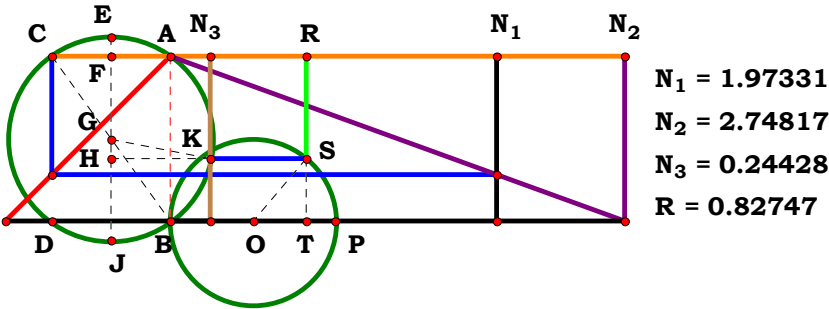
$$\frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]}}{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} = 0.363945$$

$$\text{Num} := \frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]}}{\sqrt{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]}} \right]^2}}$$

$$\text{Den} := \frac{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]}{\sqrt{\left[(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right] \right]^2}} \quad L := \frac{\text{Num}}{\text{Den}}$$

$$\text{Num} = 1 \quad \text{Den} = 1 \quad L = 1$$

$$L - \frac{\sqrt{\sqrt{A \cdot B} \cdot \left[\sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} - C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \right]^2} \cdot \left[\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} - C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]}{(A \cdot B)^{\frac{1}{4}} \cdot \sqrt{\left[\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} - C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2} \cdot \left[\sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} - C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .24428$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

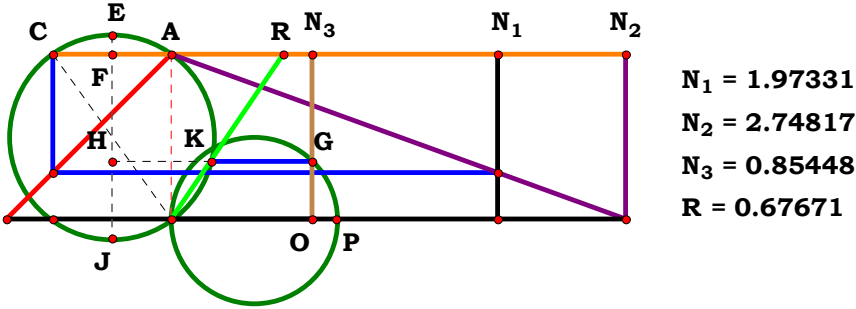
$$\frac{\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot B \cdot C \cdot N_u - 4 \cdot A \cdot N_u^2 \right)} - \sqrt{A \cdot B} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot B \cdot C \cdot N_u - 4 \cdot A \cdot N_u^2 \right)} \right] + C \cdot \sqrt{N_u \cdot (A \cdot B)^{\frac{3}{4}}}}{2 \cdot \sqrt{N_u \cdot (A \cdot B)^{\frac{3}{4}}} \cdot C} = 0.827471$$

$$Num := \frac{\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot B \cdot C \cdot N_u - 4 \cdot A \cdot N_u^2 \right)} - \sqrt{A \cdot B} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot B \cdot C \cdot N_u - 4 \cdot A \cdot N_u^2 \right)} \right] + C \cdot \sqrt{N_u \cdot (A \cdot B)^{\frac{3}{4}}}}{\sqrt{\left[\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot B \cdot C \cdot N_u - 4 \cdot A \cdot N_u^2 \right)} - \sqrt{A \cdot B} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot B \cdot C \cdot N_u - 4 \cdot A \cdot N_u^2 \right)} \right] + C \cdot \sqrt{N_u \cdot (A \cdot B)^{\frac{3}{4}}}} \right]^2}}$$

$$Den := \frac{2 \cdot \sqrt{N_u \cdot (A \cdot B)^{\frac{3}{4}}} \cdot C}{\sqrt{\left[2 \cdot \sqrt{N_u \cdot (A \cdot B)^{\frac{3}{4}}} \cdot C \right]^2}} \qquad L := \frac{Num}{Den}$$

$$Num = 1 \qquad Den = 1 \qquad L = 1$$

$$L - \frac{\left[\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[\sqrt{N_u \cdot \sqrt{A \cdot B} \cdot \left(4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2 \right)} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot \left(4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2 \right)} \right] + C \cdot \sqrt{N_u \cdot (A \cdot B)^{\frac{3}{4}}}} \right] \cdot \sqrt{C^2 \cdot N_u \cdot (A \cdot B)^{\frac{3}{2}}}}{C \cdot \sqrt{N_u} \cdot \sqrt{\left[\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[\sqrt{N_u \cdot \sqrt{A \cdot B} \cdot \left(4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2 \right)} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot \left(4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2 \right)} \right] + C \cdot \sqrt{N_u \cdot (A \cdot B)^{\frac{3}{4}}}} \right]^2} \cdot (A \cdot B)^{\frac{3}{4}}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.97331$ $N_2 := 2.74817$ $N_3 := .85448$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

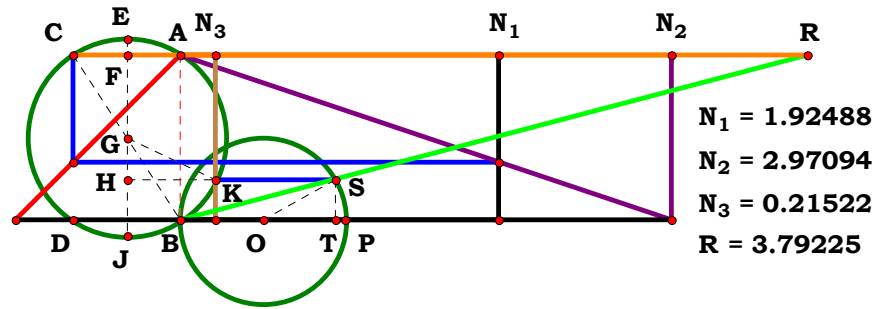
$$\frac{\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}} - B \cdot C}{2 \cdot A \cdot \sqrt{N_u \cdot (C - N_u)}} = 0.6767$$

$$Num := \frac{\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}} - B \cdot C}{\sqrt{\left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}} - B \cdot C\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot \sqrt{N_u \cdot (C - N_u)}}{\sqrt{\left[2 \cdot A \cdot \sqrt{N_u \cdot (C - N_u)}\right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}} - B \cdot C\right] \cdot \sqrt{A^2 \cdot N_u \cdot (C - N_u)}}{A \cdot \sqrt{N_u \cdot (C - N_u)} \cdot \sqrt{\left[\sqrt{B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)}} - B \cdot C\right]^2}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.92488$ $N_2 := 2.97094$ $N_3 := .21522$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{\sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} = 3.792343$$

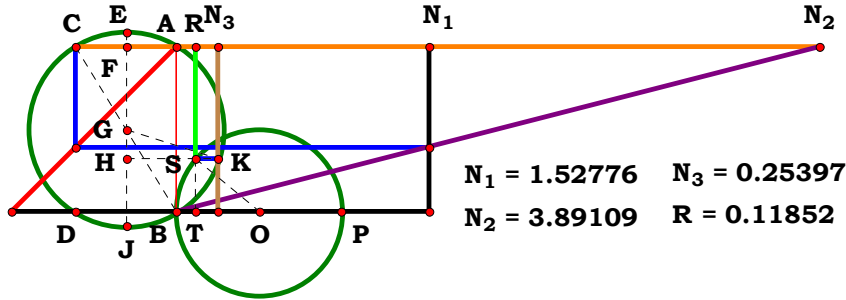
$$\text{Num} := \frac{\sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}{\sqrt{\left[\sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2}}$$

$$\text{Den} := \frac{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]}{\sqrt{\left[(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right] \right]^2}}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\sqrt{\sqrt{A \cdot B} \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]^2} \cdot \left[\sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} \dots + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]}{(A \cdot B)^{\frac{1}{4}} \cdot \sqrt{\left[\sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} \dots + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{-N_u \cdot (4 \cdot B \cdot C \cdot N_u - A \cdot C^2 + 4 \cdot A \cdot N_u^2)} \right]} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.52776$ $N_2 := 3.89109$ $N_3 := .25397$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

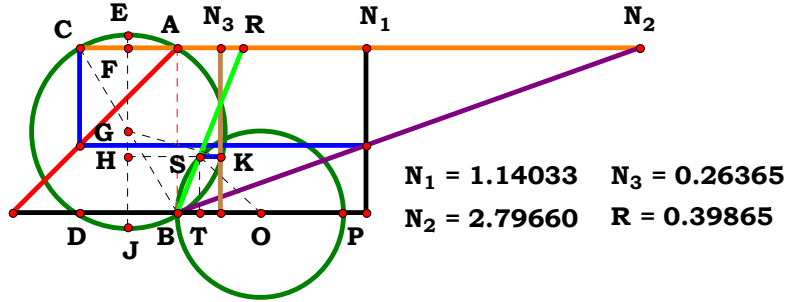
Descriptions.

$$\frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{N_u} \cdot (A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u) \dots \right.} }{\sqrt{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C}} = 0.118531 \quad \text{Den} := \frac{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C}{\sqrt{\left[2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C \right]^2}}$$

$$\text{Num} := \frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{N_u} \cdot (A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u) \dots \right.} }{\sqrt{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{N_u} \cdot (A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u) \dots \right.} \right]^2}} \quad \text{L} := \frac{\text{Num}}{\text{Den}}$$

Num = 1 Den = 1 L = 1

$$L - \frac{\left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \dots \right.} \right] \cdot \sqrt{C^2 \cdot N_u \cdot (A \cdot B)^{\frac{3}{2}}}}{\sqrt{\left[C \cdot \sqrt{N_u} \cdot \left[C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \dots \right.} \right.} \right.} \left. \left. + 2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{N_u} \cdot (A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u) + 4 \cdot A \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} - 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} \right] \right]^2} \cdot (A \cdot B)^{\frac{3}{4}}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.14033$ $N_2 := 2.79660$ $N_3 := .26365$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{N_u} \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right) \dots \right.} }{\sqrt{\left. + 4 \cdot A \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} - 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} \right]}} = 0.398638$$

$$Num := \frac{C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} - \sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B} - A \cdot C^2 \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \dots \right.} }{\sqrt{\left. + 2 \cdot A \cdot \sqrt{B} \cdot C \cdot \sqrt{N_u} \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right) + 4 \cdot A \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} - 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} \right]}}$$

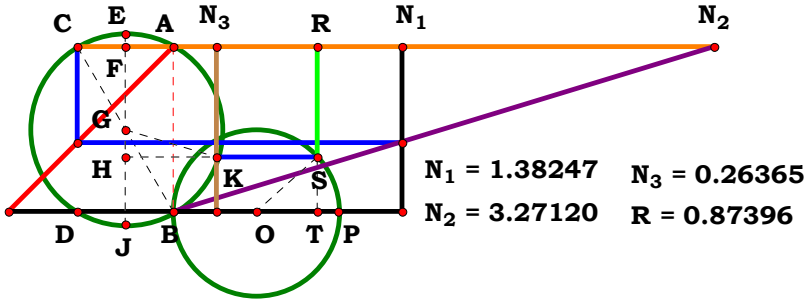
$$Den := \frac{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{N_u} \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right) \right]}{\sqrt{\left[(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{N_u} \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right) \right] \right]^2}}$$

$$L := \frac{Num}{Den}$$

Ames

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\left[\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{N_u}} \cdot \left(\mathbf{A} \cdot \mathbf{C}^2 - 4 \cdot \mathbf{A} \cdot \mathbf{N_u}^2 - 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N_u} + 4 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}\right) \dots} + -\mathbf{C} \cdot \sqrt{\mathbf{N_u}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}\right]^2 \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \cdot \left[\sqrt{\mathbf{B}} \cdot \sqrt{\sqrt{\mathbf{N_u}} \cdot \left[\frac{4 \cdot \mathbf{A} \cdot \mathbf{N_u}^{\frac{5}{2}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} - \mathbf{A} \cdot \mathbf{C}^2 \cdot \sqrt{\mathbf{N_u}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \dots}{+ 2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{B}} \cdot \mathbf{C} \cdot \sqrt{\mathbf{N_u}} \cdot \left(\mathbf{A} \cdot \mathbf{C}^2 - 4 \cdot \mathbf{A} \cdot \mathbf{N_u}^2 - 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N_u} + 4 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}\right) \dots} + 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N_u}^{\frac{3}{2}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} - 4 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}^{\frac{3}{2}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}\right]} - \mathbf{C} \cdot \sqrt{\mathbf{N_u}} \cdot (\mathbf{A} \cdot \mathbf{B})^{\frac{3}{4}}\right]}{ \left[\sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{N_u}} \cdot \left(\mathbf{A} \cdot \mathbf{C}^2 - 4 \cdot \mathbf{A} \cdot \mathbf{N_u}^2 - 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N_u} + 4 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}\right) \dots} + -\mathbf{C} \cdot \sqrt{\mathbf{N_u}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}\right] \cdot \sqrt{\left[\sqrt{\mathbf{B}} \cdot \sqrt{\sqrt{\mathbf{N_u}} \cdot \left[\frac{4 \cdot \mathbf{A} \cdot \mathbf{N_u}^{\frac{5}{2}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} - \mathbf{A} \cdot \mathbf{C}^2 \cdot \sqrt{\mathbf{N_u}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} \dots}{+ 2 \cdot \mathbf{A} \cdot \sqrt{\mathbf{B}} \cdot \mathbf{C} \cdot \sqrt{\mathbf{N_u}} \cdot \left(\mathbf{A} \cdot \mathbf{C}^2 - 4 \cdot \mathbf{A} \cdot \mathbf{N_u}^2 - 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N_u} + 4 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}\right) \dots} + 4 \cdot \mathbf{A} \cdot \mathbf{C} \cdot \mathbf{N_u}^{\frac{3}{2}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}} - 4 \cdot \mathbf{B} \cdot \mathbf{C} \cdot \mathbf{N_u}^{\frac{3}{2}} \cdot \sqrt{\mathbf{A} \cdot \mathbf{B}}}\right]} - \mathbf{C} \cdot \sqrt{\mathbf{N_u}} \cdot (\mathbf{A} \cdot \mathbf{B})^{\frac{3}{4}}\right]^2 \cdot (\mathbf{A} \cdot \mathbf{B})^{\frac{1}{4}}} = \mathbf{0}$$



Descriptions.

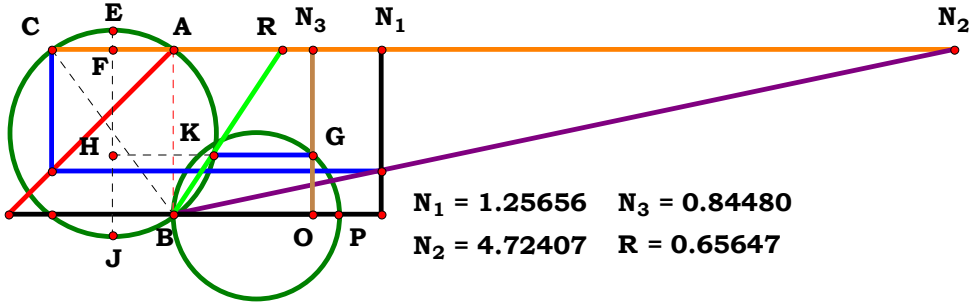
$$\frac{\sqrt{B} \cdot \sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \dots \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}{\sqrt{\left[2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{N_u} \cdot (A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u) + 4 \cdot A \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} - 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} \right]}} = 0.873958 \quad \text{Den} := \frac{2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C}{\sqrt{\left[2 \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \cdot C \right]^2}}$$

$$\text{Num} := \frac{\sqrt{B} \cdot \sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \dots \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}}}{\sqrt{\left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \dots \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2}}$$

$\text{L} := \frac{\text{Num}}{\text{Den}}$

$\text{Num} = 1$ $\text{Den} = 1$ $\text{L} = 1$

$$\text{L} - \frac{\left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \dots \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right] \cdot \sqrt{C^2 \cdot N_u \cdot (A \cdot B)^{\frac{3}{2}}}}{C \cdot \sqrt{N_u} \cdot \left[\sqrt{B} \cdot \sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} \dots \right] + C \cdot \sqrt{N_u} \cdot (A \cdot B)^{\frac{3}{4}} \right]^2 \cdot (A \cdot B)^{\frac{3}{4}}} = 0$$



Unit. AB := 1 Given. N₁ := 1.25656 N₂ := 4.72407 N₃ := .84480

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

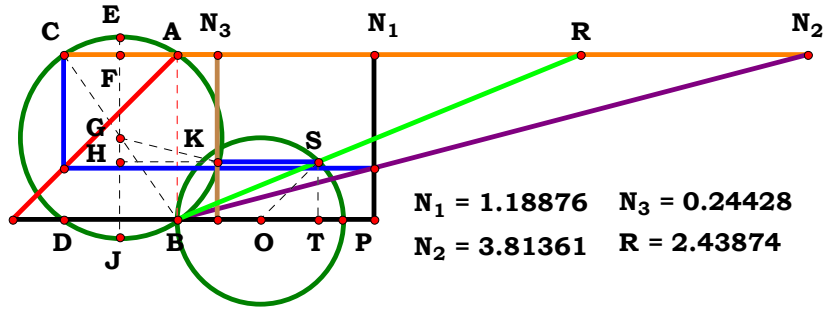
$$\frac{\sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - C \cdot (A - B)}}{2 \cdot A \cdot \sqrt{N_u \cdot (C - N_u)}} = 0.656473$$

$$Num := \frac{\sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - C \cdot (A - B)}}{\sqrt{\left[\sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - C \cdot (A - B)}\right]^2}}$$

$$Den := \frac{2 \cdot A \cdot \sqrt{N_u \cdot (C - N_u)}}{\sqrt{\left[2 \cdot A \cdot \sqrt{N_u \cdot (C - N_u)}\right]^2}} \quad L := \frac{Num}{Den}$$

$$Num = 1 \quad Den = 1 \quad L = 1$$

$$L - \frac{\left[\sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - C \cdot (A - B)}\right] \cdot \sqrt{A^2 \cdot N_u \cdot (C - N_u)}}{A \cdot \sqrt{\left[\sqrt{A^2 \cdot C^2 + B^2 \cdot C^2 + 4 \cdot A^2 \cdot N_u^2 - 2 \cdot A \cdot B \cdot C^2 - 4 \cdot A^2 \cdot C \cdot N_u + 4 \cdot A^2 \cdot C \cdot \sqrt{N_u \cdot (C - N_u)} - C \cdot (A - B)}\right]^2 \cdot \sqrt{N_u \cdot (C - N_u)}}} = 0$$



Unit. $AB := 1$ Given. $N_1 := 1.18876$ $N_2 := 3.81361$ $N_3 := .24428$

$$N_u := 3 \quad A := \frac{N_u}{N_1} \quad B := \frac{N_u}{N_2} \quad C := \frac{N_u}{N_3}$$

Descriptions.

$$\frac{\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right)} \dots \right] + 4 \cdot A \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} - 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B}}}{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right)} \right]} = 2.438738$$

$$\begin{aligned}
 \text{Num} &:= \frac{\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right)} \dots \right] + 4 \cdot A \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} - 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B}}}{(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right)} \right]} \\
 \text{Den} &:= \frac{\sqrt{\left[\sqrt{B} \cdot \sqrt{\sqrt{N_u} \cdot \left[4 \cdot A \cdot N_u^{\frac{5}{2}} \cdot \sqrt{A \cdot B - A \cdot C^2} \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} + 2 \cdot A \cdot \sqrt{B \cdot C} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right)} \dots \right] + 4 \cdot A \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B} - 4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}} \cdot \sqrt{A \cdot B}} \right]^2}}{\left[(A \cdot B)^{\frac{1}{4}} \cdot \left[C \cdot \sqrt{N_u} \cdot \sqrt{A \cdot B} - \sqrt{B} \cdot \sqrt{N_u \cdot \left(A \cdot C^2 - 4 \cdot A \cdot N_u^2 - 4 \cdot A \cdot C \cdot N_u + 4 \cdot B \cdot C \cdot N_u \right)} \right] \right]^2}
 \end{aligned}$$

$$L := \frac{\text{Num}}{\text{Den}}$$

Ames

Num = 1 Den = 1 L = 1

$$\mathbf{L} - \frac{\sqrt{\left[\mathbf{C} \cdot \sqrt{\mathbf{N_u}} \cdot \sqrt{\mathbf{A \cdot B}} - \sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{N_u} \cdot \left(\mathbf{A \cdot C^2} - \mathbf{4 \cdot A \cdot N_u^2} \dots \right.} \right.}^2 \cdot \sqrt{\mathbf{A \cdot B}} \cdot \sqrt{\mathbf{B}} \cdot \sqrt{\mathbf{N_u}} \cdot \left. \begin{aligned} &\mathbf{4 \cdot A \cdot N_u^{\frac{5}{2}}} \cdot \sqrt{\mathbf{A \cdot B}} - \mathbf{A \cdot C^2} \cdot \sqrt{\mathbf{N_u}} \cdot \sqrt{\mathbf{A \cdot B}} \dots \\ &+ \mathbf{2 \cdot A \cdot \sqrt{B} \cdot C} \cdot \sqrt{\mathbf{N_u} \cdot \left(\mathbf{A \cdot C^2} - \mathbf{4 \cdot A \cdot N_u^2} - \mathbf{4 \cdot A \cdot C \cdot N_u} + \mathbf{4 \cdot B \cdot C \cdot N_u} \right)} \dots \\ &+ \mathbf{4 \cdot A \cdot C \cdot N_u^{\frac{3}{2}}} \cdot \sqrt{\mathbf{A \cdot B}} - \mathbf{4 \cdot B \cdot C \cdot N_u^{\frac{3}{2}}} \cdot \sqrt{\mathbf{A \cdot B}} \end{aligned} \right]} + \mathbf{C} \cdot \sqrt{\mathbf{N_u}} \cdot (\mathbf{A \cdot B})^{\frac{3}{4}}} \cdot (\mathbf{A \cdot B})^{\frac{1}{4}}} = \mathbf{0}$$